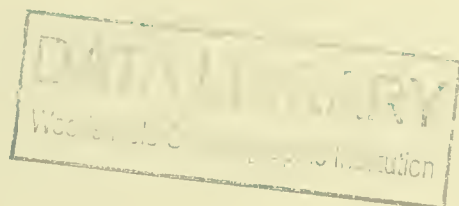


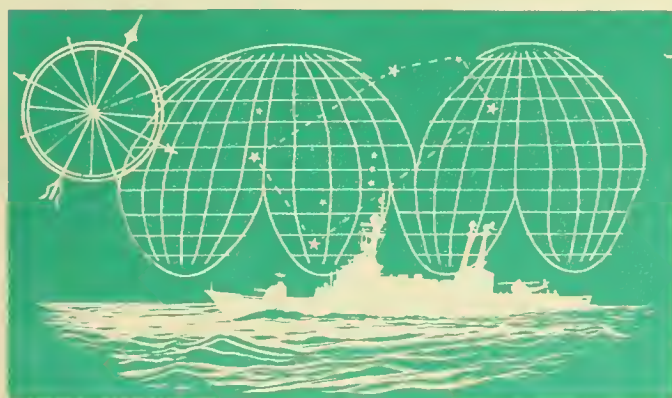
U.S. Coast Guard Oceanographic Report

UNITED STATES COAST GUARD  
OCEANOGRAPHIC  
REPORT No. 32

CG 373-32



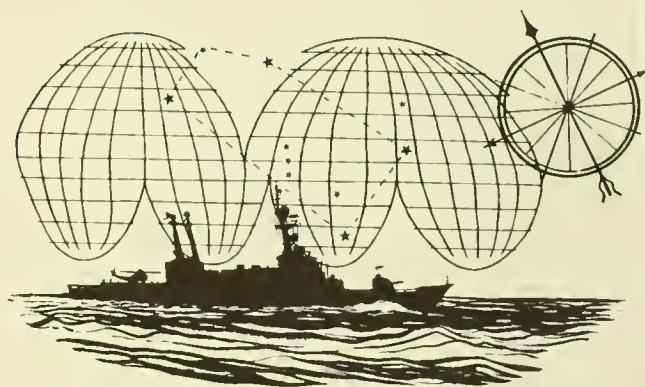
OCEANOGRAPHIC OBSERVATIONS  
NORTH ATLANTIC STANDARD MONITORING SECTIONS  
1964-1966



GC  
3  
U7  
A3  
no. 32

~~Atlas~~  
~~532-AA~~  
~~CG-373-32~~  
~~shelf~~

UNITED STATES COAST GUARD  
OCEANOGRAPHIC



UNITED STATES COAST GUARD OCEANOGRAPHIC UNIT

# REPORT No. 32 <sup>CG 373-32</sup>

OCEANOGRAPHIC OBSERVATIONS

NORTH ATLANTIC STANDARD MONITORING SECTION

1964-1966

*David M. Husby*





## DEDICATION

This report, the first on the Coast Guard's Standard Section Monitoring Program, is dedicated to James W. McGary, Director of Oceanography of the Coast Guard Oceanographic Unit from 1964 until his death in September 1968. Born in Mercer County, Pa., he received a bachelor's degree in education in 1939 from Pennsylvania State Teachers College in Slippery Rock, Pa.; a bachelor's degree in engineering from the U.S. Coast Guard Academy in 1942, and a master's degree in physical oceanography from Johns Hopkins University in 1952. In World War II, he served with the Coast Guard in the Atlantic and Pacific theaters. He remained in the Coast Guard Reserve, attaining the rank of Commander. After the war, he taught school until becoming an oceanographer at the Honolulu Biological Laboratory of the U.S. Fish and Wildlife Service and then was employed by the Office of Naval Research prior to appointment as the first Director of the Coast Guard Oceanographic Unit.

Jim McGary created the Coast Guard's Standard Section Monitoring Program. This program was initiated and developed under his guidance and must rank as one of his most important contributions in the field of oceanography. In his memory, the Standard Section Monitoring Program will continue to make best use of Coast Guard cutters en route to and from ocean stations by collecting vast amounts of oceanographic data that will immeasurably add to knowledge about our major current systems in the North Atlantic and North Pacific Oceans.

## ABSTRACT

This report contains the observed and interpolated oceanographic data obtained by U.S. Coast Guard vessels on six Standard Monitoring Sections in the North Atlantic during 1964 through 1966. The Standard Section Monitoring Program was initiated by the U.S. Coast Guard in 1964 to provide for the systematic collection, compilation, and presentation of oceanographic data in the major current systems of the North Atlantic. A discussion of the data collection methods, data treatment, and a tabulation of the data along with vertical sections of temperature, salinity, and solenoidal volume flow are presented in this report.

# CONTENTS

	Page
Dedication.....	III
Abstract.....	IV
Introduction.....	1
Data collection.....	1
Data treatment.....	2
Cruise narratives.....	3
Data presentation.....	4
Literature cited.....	4
Illustrations.....	5
Tables.....	54
Explanation of oceanographic station data.....	55
Tables of oceanographic data.....	57

## ILLUSTRATIONS

Figure	Page
1. Positions of North Atlantic Standard Monitoring Sections.....	5
2. Trackline of Gulf Stream-Labrador Current Survey, USCGC EVERGREEN (WAGO 295), 17 October-17 November 1966.....	6
3. Surface Dynamic Height Contours, Relative to 1,000 Decibar Surface, on Sections A2, A3, and A4, 6-13 November 1966.....	7
4. Surface Dynamic Height Contours, Relative to 1,000 Decibar Surface, on Sections A5 and A6, 25 October-3 November 1966.....	8
5. Vertical Section of Temperature (°C) on Section A1, USCGC EVERGREEN, 25 July-26 July 1965.....	9
6. Vertical Section of Salinity (‰) on Section A1, USCGC EVERGREEN, 25 July-26 July 1965.....	9
7. Solenoid Division of Section A1, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 25 July-26 July 1965.....	10
8. Vertical section of Temperature (°C) on Section A1, USCGC EVERGREEN, 6 June-7 June 1966.....	11
9. Vertical Section of Salinity (‰) on Section A1, USCGC EVERGREEN, 6 June-7 June 1966.....	11
10. Solenoid Division of Section A1, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from data of USCGC EVERGREEN, 6 June-7 June 1966.....	12
11. Vertical Section of Temperature (°C) on Section A2, USCGC HUMBOLDT, (WHEC 372), 11 March-12 March 1966.....	13
12. Vertical Section of Salinity (‰) on Section A2, USCGC HUMBOLDT, 11 March -12 March 1966.....	13



Figure	Page
13. Solenoid Division of Section A2, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC HUMBOLDT, 11 March-12 March 1966-----	14
14. Vertical Section of Temperature (°C) on Section A2, USCGC EVERGREEN, 7 April-8 April 1966-----	15
15. Vertical Section of Salinity (‰) on Section A2, USCGC EVERGREEN, 7 April-8 April 1966-----	15
16. Solenoid Division of Section A2, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 7 April-8 April 1966-----	16
17. Vertical Section of Temperature (°C) on Section A2, USCGC EVERGREEN, 26 May-27 May 1966-----	17
18. Vertical Section of Salinity (‰) on Section A2, USCGC EVERGREEN, 26 May-27 May 1966-----	17
19. Solenoid Division of Section A2, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 26 May-27 May 1966-----	18
20. Vertical Section of Temperature (°C) on Section A2, USCGC EVERGREEN, 6 November-7 November 1966-----	19
21. Vertical Section of Salinity (‰) on Section A2, USCGC EVERGREEN, 6 November-7 November 1966-----	20
22. Solenoid Division of Section A2, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 6 November-7 November 1966-----	21
23. Vertical Section of Temperature (°C) on Section A3, USCGC MENDOTA (WHEC 69), 23 November-24 November 1964-----	22
24. Vertical Section of Salinity (‰) on Section A3, USCGC MENDOTA, 23 November-24 November 1964-----	22
25. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC MENDOTA, 23 November-24 November 1964-----	23
26. Vertical Section of Temperature (°C) on Section A3, USCGC INGHAM (WHEC 35), 28 January-29 January 1965-----	24
27. Vertical Section of Salinity (‰) on Section A3, USCGC INGHAM, 28 January-29 January 1965-----	24
28. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC INGHAM, 28 January-29 January 1965-----	25
29. Vertical Section of Temperature (°C) on Section A3, USCGC DUANE (WHEC 33), 14 February-15 February 1966-----	26
30. Vertical Section of Salinity (‰) on Section A3, USCGC DUANE, 14 February-15 February 1966-----	26
31. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC DUANE, 14 February-15 February 1966-----	27
32. Vertical Section of Temperature (°C) on Section A3, USCGC HUMBOLDT, 9 March-10 March 1966-----	28
33. Vertical Section of Salinity (‰) on Section A3, USCGC HUMBOLDT, 9 March-10 March 1966-----	28



Figure	Page
34. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC HUMBOLDT, 9 March-10 March 1966.....	29
35. Vertical Section of Temperature (°C) on Section A3, USCGC EVERGREEN, 4 April-5 April 1966.....	30
36. Vertical Section of Salinity (‰) on Section A3, USCGC EVERGREEN, 4 April-5 April 1966.....	30
37. Solenoid Division of Section A3, used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 4 April-5 April 1966.....	31
38. Vertical Section of Temperature (°C) on Section A3, USCGC EVERGREEN, 16 April-17 April 1966.....	32
39. Vertical Section of Salinity (‰) on Section A3, USCGC EVERGREEN, 16 April-17 April 1966.....	32
40. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 16 April-17 April 1966.....	33
41. Vertical Section of Temperature (°C) on Section A3, USCGC EVERGREEN, 18 April-19 April 1966.....	34
42. Vertical Section of Salinity (‰) on Section A3, USCGC EVERGREEN, 18 April-19 April 1966.....	34
43. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 18 April-19 April 1966.....	35
44. Vertical Section of Temperature (°C) on Section A3, USCGC EVERGREEN. 21 April 1966.....	36
45. Vertical Section of Salinity (‰) on Section A3, USCGC EVERGREEN, 21 April 1966.....	36
46. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 21 April 1966.....	37
47. Vertical Section of Temperature (°C) on Section A3, USCGC EVERGREEN, 25 May-26 May 1966.....	38
48. Vertical Section of Salinity (‰) on Section A3, USCGC EVERGREEN, 25 May-26 May 1966.....	38
49. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 25 May-26 May 1966.....	39
50. Vertical Section of Temperature (°C) on Section A3, USCGC EVERGREEN, 9 November-11 November 1966.....	40
51. Vertical Section of Salinity (‰) on Section A3, USCGC EVERGREEN, 9 November-11 November 1966.....	40
52. Solenoid Division of Section A3, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 9 November-11 November 1966.....	41
53. Vertical Section of Temperature (°C) on Section A4, USCGC EVERGREEN, 2 April-3 April 1966.....	42
54. Vertical Section of Salinity (‰) on Section A4, USCGC EVERGREEN, 2 April-3 April 1966.....	42

Figure	Page
55. Solenoid Division of Section A4, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 2 April-3 April 1966-----	43
56. Vertical Section of Temperature (°C) on Section A4, USCGC EVERGREEN, 22 May-24 May 1966-----	44
57. Vertical Section of Salinity (‰) on Section A4, USCGC EVERGREEN, 22 May-24 May 1966-----	44
58. Solenoid Division of Section A4, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 22 May-24 May 1966-----	45
59. Vertical Section of Temperature (°C) on Section A4, USCGC EVERGREEN, 11 November-13 November 1966-----	46
60. Vertical Section of Salinity (‰) on Section A4, USCGC EVERGREEN, 11 November-13 November 1966-----	46
61. Solenoid Division of Section A4, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 11 November-13 November 1966-----	47
62. Vertical Section of Temperature (°C) on Section A5, USCGC EVERGREEN, 1 November-3 November 1966-----	48
63. Vertical Section of Salinity (‰) on Section A5, USCGC EVERGREEN, 1 November-3 November 1966-----	48
64. Solenoid Division of Section A5, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 1 November-3 November 1966-----	49
65. Vertical Section of Temperature (°C) on Section A6, USCGC EVERGREEN, 25 October-28 October 1966-----	50
66. Vertical Section of Salinity (‰) on Section A6, USCGC EVERGREEN, 25 October-28 October 1966-----	50
67. Solenoid Division of Section A6, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC EVERGREEN, 25 October-28 October 1966-----	51
68. Vertical Section of Temperature (°C) on Section A6, USCGC ROCKAWAY, (WAGO 377), 19 November-22 November 1966-----	52
69. Vertical Section of Salinity (‰) on Section A6, USCGC ROCKAWAY, 19 November-22 November 1966-----	52
70. Solenoid Division of Section A6, as used in Volume Flow, Heat and Salt Transport Calculations. Prepared from Data of USCGC ROCKAWAY, 19 November-22 November 1966-----	53

## TABLES

	Page
1. Listing of all Standard Section Cruises, 1964-66-----	54
2. List of Standard Depths (meters) for Electronically Obtained Serial Data....	54

## TABLES OF OCEANOGRAPHIC DATA

	Page
I. USCGC MENDOTA (WHEC 69) November 1964 Data and USCGC INGHAM (WHEC 35) January 1965 Data-----	57
II. USCGC DUANE (WHEC 33) February 1966 Data-----	67
III. USCGC HUMBOLDT (WHEC 372) March 1966 Data-----	75
IV. USCGC EVERGREEN (WAGO 295) October-November 1966 Data-----	93
V. USCGC ROCKAWAY (WAGO 377) November 1966 Data-----	179

## INTRODUCTION

In November 1964, the USCGC MENDOTA (WHEC 69) occupied a line of oceanographic stations from the eastern Grand Banks to the south-east across the main core of the Labrador Current. This was the beginning of the U.S. Coast Guard's "Standard Section" Monitoring Program in the North Atlantic. It has long been recognized that our knowledge of large-scale variations in oceanic circulation, e.g., eddy processes, is very limited. Large-scale problems such as this need a large volume of long-term observations for their solution. In fulfillment of this objective, the U.S. Coast Guard initiated a program to provide for the systematic collection, compilation, and presentation of oceanographic data in the major current systems of the western North Atlantic. Seven sections in the North Atlantic were selected to be monitored by U.S. Coast Guard ocean station vessels; the two oceanographic vessels, the USCGC EVERGREEN (WAGO 295) and the USCGC ROCKAWAY (WAGO 377); and icebreakers on an opportunity basis.

The sections were selected to include the most dynamic areas possible and still be somewhat consistent with the normal tracks of the ocean station vessels (fig. 1). In most cases, the sections are normal to and include the main axis of a major current. Sections 1, 2, and 3 extend across the main core of the Labrador Current and occupation of these sections will result in a valuable input for the long-range forecasting of ice conditions on the Grand Banks. During the months of April, May, and June, the USCGC EVERGREEN occupies these sections in direct support of international Ice Patrol research. In fact, section 1 has been occupied nearly annually since 1928 as part of a larger section extending from near South Wolf Island, Labrador, to Cape Farewell, Greenland (Bush, et al., 1957).

Section 4 extends from the southern Grand Banks southward across the Labrador Current, across the mixed waters of the Labrador Current and into the North Atlantic Current. Data from this section could indicate the boundaries of these currents and their relative strengths in the dynamic area where the Arctic waters of the Labrador meet the subtropical waters of the Gulf Stream.

Sections 5, 6, and 7 encompass the region from Cape Kennedy to the Gulf of Maine and between the continental shelf and the deep offshore waters.

Data from these sections will provide information in the study of the Florida Current, Gulf Stream and North Atlantic Current systems.

The utilization of the ocean station vessels which routinely collect oceanographic data at four locations in the North Atlantic, allows a nearly synoptic observational program of the Labrador and North Atlantic Current systems. The ultimate goal is a monthly occupation of sections 2 through 5, seasonal occupation of sections 6 and 7, and occupation of section 1 as ice conditions permit. This sampling program was severely curtailed in 1965 by the shortage of deep-sea reversing thermometers.

## DATA COLLECTION

A total of 32 ocean station vessels and the two U.S. Coast Guard Oceanographic vessels, USCGC EVERGREEN and USCGC ROCKAWAY, are equipped to participate in the Standard Section Program. The OSV's occupy a section en route from a particular ocean station, as scheduling permits. Each vessel has at least a minimum of the equipment necessary to conduct Nansen bottle casts, make salinity determinations and collect bathymetric and meteorological data. The vessels are now being equipped with the in situ Salinity/Temperature/Depth Sensor Systems (STD). Observations are made by trained oceanographic technicians who are graduates of the U.S. Coast Guard Training Center's Oceanography School, formerly at Groton, Connecticut.

The USCGC EVERGREEN was equipped with the STD system in 1966 and made the first successful use of the STD system on the Standard Sections on the Gulf Stream-Labrador Current Survey during October–November 1966, which will be discussed later.

## STATION OBSERVATIONS

1. At the majority of the stations, the maximum sampling depth is 1,500 meters or as near the bottom as is practicable if the water depth is less than 1,500 meters. In the offshore areas sampling is extended to as close to the bottom as possible at 180 to 200 mile intervals. For the 1,500 meter casts, the sampling depths, in general, are 0, 25, 50, 100, 150, 200, 300, 400, 500, 600, 800, 1000, 1250 and 1,500 meters. Water temperature and salinity are measured at each sampling depth.

2. Temperatures are measured by deep-sea reversing thermometers of the Richter and Wiese, Yoshino Keike, and Kessler makes. Two protected



thermometers are used on each Nansen bottle. At least five bottles from 200 to 1,500 meters have an unprotected thermometer in conjunction with the protected thermometers for the thermometric determination of sampling depths. In situ temperatures are determined by the average of the corrected readings of the protected thermometers. The maximum difference tolerated between the two readings is  $\pm 0.040^\circ\text{C}$ .

3. Samples of water are drawn from each Nansen bottle for the determination of salinity aboard ship. Duplicate samples are drawn from the top and bottom Nansen bottle in each cast and delivered to the U.S. Coast Guard Oceanographic Unit for quality control comparisons. The salinities are determined aboard ship by Model 6220 inductive salinometers manufactured by the Bisset-Berman Corp. These instruments have a probable accuracy, as stated by the manufacturer, of  $\pm 0.003\%$ .

## DATA TREATMENT

The data for each station, including temperature, salinity, and depth, are encoded and transmitted to U.S. Coast Guard Oceanographic Unit, Washington, D.C., via radio teletype for real-time data processing and quality control. The temperature data are transmitted immediately after the observations are made while the salinities are usually transmitted within 3 days of observation. The U.S. Coast Guard Oceanographic Unit processes these data with a Digital Equipment Corp. PDP-5 computer. Nansen cast temperatures are corrected at U.S. Coast Guard Oceanographic Unit and transmitted to the Fleet Numerical Weather Facility, Monterey, California, within 12 hours of observation for use in forecasting oceanographic conditions.

Values of density ( $\sigma_t$ ) and dynamic heights based on the 1,000 decibar level are determined at each sample depth. The U.S. Coast Guard Oceanographic Unit computes the dynamic heights of the various levels, summing both the observed specific volume anomaly values and the interpolated standard depth values. The determination of dynamic heights in shallow water is performed in the manner described by Helland-Hansen (1934). This method assumes that level isotheric surfaces extend from the water-sediment interface, on the continental slope, into the bottom to a point directly below the next station. This allows the extension of the pressure surfaces,

related to the 1,000 decibar level of no assumed motion, above the shelf as far as the Coast.

Volume flow computations are accomplished at U.S. Coast Guard Oceanographic Unit by a computer program specifically written to provide transport information through vertical property sections (Kollmeyer, et al., 1966). The program computes volume flow information through solenoids which subdivide a property section into small rectangles. The solenoids are bounded by the data obtained from adjacent stations at the various standard depths. The volume flow information is calculated using the following equations:

$$\bar{V} = V_m \times A \quad (1)$$

where

$$V_m = \frac{10(\bar{D}_A - \bar{D}_B)}{fL} \quad (2)$$

$$A = d \times L \quad (3)$$

$\bar{V}$  = volume flow

$V_m$  = mean water velocity within the solenoid

$A$  = Area of solenoid, bounded by station locations and standard depth intervals

$(\bar{D}_A - \bar{D}_B)$  = Difference in mean dynamic height values between adjacent stations, based on the 1,000 decibar level, at a point between the upper and lower standard depth values bounding the solenoid.

$f$  = Coriolis parameter =  $2\Omega \sin \phi$

where  $\Omega$  = angular velocity of earth

$\phi$  = latitude

$L$  = Distance between adjacent stations

$d$  = Vertical distance between the standard depth values bounding the solenoid.

Combining equations (1), (2), and (3);

$$\bar{V} = \frac{10(\bar{D}_A - \bar{D}_B)d}{f} \quad (4)$$

The volume flow calculations are now independent of the distance between stations. This allows sim-

plified volume flow computations through solenoids located along the bottom in shallow water. The volume flow computed has the dimensions  $10^6$  m<sup>3</sup>/sec and the direction of flow is indicated by a plus or minus sign. Thus, each vertical property section is divided into solenoids and the entire volume flow, magnitude, and direction, through the section is determined.

Property transport of heat and salt are computed for each solenoid in the section using the following equations:

$$Q_t = \bar{V} \times T_m \quad (5)$$

where

$Q_t$  = heat transport ( $10^{60}$ C. m<sup>3</sup>/sec)

$T_m$  = mean temperature within solenoid (°C)

$\bar{V}$  = volume flow ( $10^6$ m<sup>3</sup> /sec)

and

$$M_s = \bar{V} \times S_m \times \rho_m \quad (6)$$

where

$M_s$  = salt transport ( $10^9$ ) gms/sec

$S_m$  = mean salinity within solenoid

$\rho_m$  = mean density of seawater = 1.03 gms/cm<sup>3</sup>

The processed temperature and salinity data were recorded on form NHO-NODC-31/67/1 (9-61), Physical and Chemical Data forms for Oceanographic Stations, and delivered to the National Oceanographic Data Center (NODC). The interpolated temperatures and salinities for standard depths, sigma-t, specific volume anomalies, geopotential anomalies ( $\Delta D$ ), and sound velocities were made by NODC and NODC provided listings for the preparation of tables (I-V).

## CRUISE NARRATIVES

During the 1964-66 period, a total of 22 whole or in part occupations were made on six of the Standard Sections. The cruise number, ships, dates, numbers of stations and NODC accession numbers for these cruises are given in table 1. Section 7 was not occupied during this period, but has been included in the program in 1967.

Five of these cruises were made by ocean station vessels returning from Ocean Stations BRAVO and CHARLIE. The data were obtained on these cruises entirely by Nansen bottle casts. The remainder of the cruises were made by the U.S. Coast Guard Oceanographic Vessels, the USCGC EVERGREEN and USCGC ROCKAWAY.

Cruise A1-1 by the USCGC EVERGREEN was part of an oceanographic survey in the western Labrador Sea in the vicinity of Hudson Strait in 1965. The purpose of the survey was to quantitatively determine the contribution to and the effect of the Hudson Strait outflow on the Labrador Current. The data are published in the U.S. Coast Guard Oceanographic Report No. 12, "Oceanography of the Labrador Sea in the Vicinity of Hudson Strait in 1965," Kollmeyer, et al., 1967.

Cruises A3-1 and A3-2 were accomplished by the USCGC MENDOTA and the USCGC ING-HAM en route to and on the return voyage from Ocean Station CHARLIE, respectively. The data from both these cruises are listed by NODC as Ref. No. 31-223 and as table I of this report.

Cruises A1-2, A2-2, A3-5 through A3-9, A4-1, and A4-2 were made by the USCGC EVERGREEN in support of International Ice Patrol research. They were made during the ice season of 1966 and consisted of a quasi-synoptic occupation of sections 2, 3, and 4 between 2 April and 8 April 1966 and then a time-series study of section 3 between 16 April and 21 April of three nearly complete occupations. During May-June 1966, the USCGC EVERGREEN then reoccupied sections 1, 2, 3, and 4 to investigate the temporal variations in the circulation of the Labrador Current. Cruises A2-1, A3-3, and A3-4 were made by the ocean station vessels USCGC HUMBOLDT (WHEC 372) and USCGC DUANE (WHEC 33) prior to the beginning of the Ice Patrol research, but the data were presented in graphical form with the 1966 Ice Patrol data. Cruise A3-3 by the USCGC DUANE was accomplished en route Ocean Station BRAVO in February 1966. The data are listed by NODC as Ref. No. 31-792 and as table II of this report. The data from cruises A2-1 and A3-4 were collected by the USCGC HUMBOLDT also en route to Ocean Station BRAVO in March 1966. The data are listed by NODC as Ref. No. 31-702 and as table III of this report. All these data are published in the U.S. Coast Guard Oceanographic Report No. 13, "Oceanography of the Grand Banks Region and the Labrador Sea in 1966," Wolford, T. C. (in press).

## GULF STREAM-LABRADOR CURRENT SURVEY

During 17 October-17 November 1966, the USCGC EVERGREEN occupied sections A2, A3,



A4, A5, and A6 to provide a synoptic picture of the Gulf Stream and Labrador Current systems. Senior scientist for the cruise was Mr. J. W. McGary, Director of Oceanography, U.S. Coast Guard Oceanographic Unit. The objectives of this survey were: (1) to make a preliminary survey of sections A5 and A6 to check the adequacy of the station spacing and the sampling intervals and (2) to provide data on the Labrador-Gulf Stream system for the first time in the fall season. The trackline for the survey is shown in figure 2. Stations 1-19 in the Gulf of Maine were stations requested by the Bureau of Commercial Fisheries. The remainder of the survey is listed in table 1 as A2-4, A3-10, A4-3, A5-1, and A6-1.

A total of 107 stations were occupied using the Hytech 9006 in situ Salinity/Temperature/Depth Sensor System (STD) to obtain continuous temperature and salinity versus depth profiles from the surface to 1,500 meters. Sections A6 and A5 were occupied first between 25 October and 3 November 1966. Then sections 2, 3, and 4 were occupied, in that order. At three stations on A5 and two on A6, Nansen bottle casts were made in addition to the STD lowering to obtain data below the depth of 1,500 meters. However, these casts were limited to 3,000 meters by the amount of wire available. At all stations, one or two bucket temperatures and salinity samples were taken as quality control checks on the STD performance. Up to station 30, Nansen bottles were placed on the STD cable at the surface and 1,495 meters to collect calibration data. Results showed that temperature and depth corrections were negligible, but the STD salinity values were slightly lower than the control samples.

The analog traces of temperature and salinity which were obtained were read by recording only "standard" depth values and significant inflection point values. The standard depths are in accord-

ance with those recommended by the NODC in publication M-2, "Processing Physical and Chemical Data from Oceanographic Stations," Part 1A, Coding and Key punching Electronically Obtained Serial Data (Provisional), May 1966 (see table 2).

The processed and corrected data were tabulated on the NODC-EXP-3167/40 (4/66) Form for Reporting Electronically Obtained Serial Data (Provisional) and delivered to the NODC for archiving and the preparation of listings. The data are listed by the NODC as Ref. No. 31-8007 and as table IV of this report.

The USCGC ROCKAWAY occupied section A6 during the period 19 November-22 November 1966. Fifteen oceanographic stations were occupied, each consisting of 15-bottle Nansen casts to a depth of 1,500 meters or to within 50 meters of the bottom when the water depth was less than 1,500 meters. These data are listed by the NODC as Ref. No. 31-1061 and as table V of this report.

## DATA PRESENTATION

The oceanographic station data for each cruise are presented in this report as vertical cross-sections of temperature, salinity, and solenoidal volume flow.

For the Gulf Stream-Labrador Survey in November 1966, the dynamic topography of the sea surface relative to the 1,000 decibar surface is presented for each section by contouring the lines of dynamic height between each station with a contour interval of 0.02 dynamic meters (see figs. 3 and 4). The lines of equal dynamic height are not connected between each section, as has been the practice in the past, because it is realized that these data are not synoptic in any sense of the word.

All physical data are tabulated in tables I-V which are preceded by an explanation of the codes used.

## Literature Cited

- Bush, A. J., J. E. Murray, and F. M. Soule, 1957. International Ice Observation and Ice Patrol Service in the North Atlantic Ocean, Season of 1956, Bulletin No. 42.
- Helland-Hansen, B., 1934. The Sognefjord Section. Oceanographic Observations in the Northernmost Part of the North Sea and Southern Part of the Norwegian Sea. J. Johnstone Mem. Vol. p. 257, Liverpool, 1934.
- Kollmeyer, R. C. et al., 1966. "Oceanography of the Labrador Sea in the Vicinity of Hudson Strait in 1965," U.S. Coast Guard Oceanographic Report No. 12, CG-373-12.
- NODC publication M-2, "Processing Physical and Chemical Data From Oceanographic Stations," Part 1A, Coding and Key punching Electronically Obtained Serial Data (Provisional), May 1966.



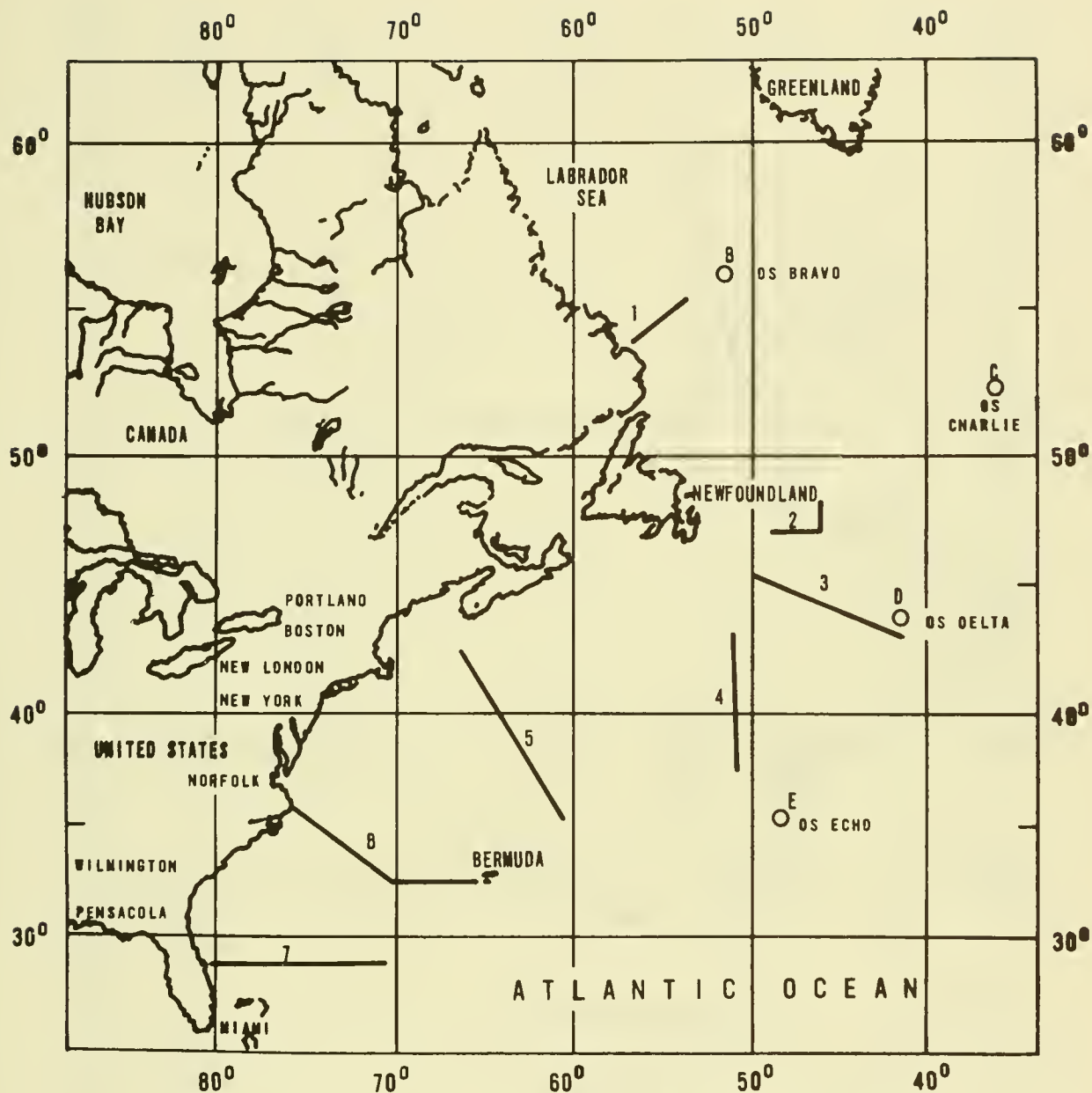


FIGURE 1. Locations of North Atlantic Ocean Stations and Standard Monitoring Sections occupied by the U.S. Coast Guard.

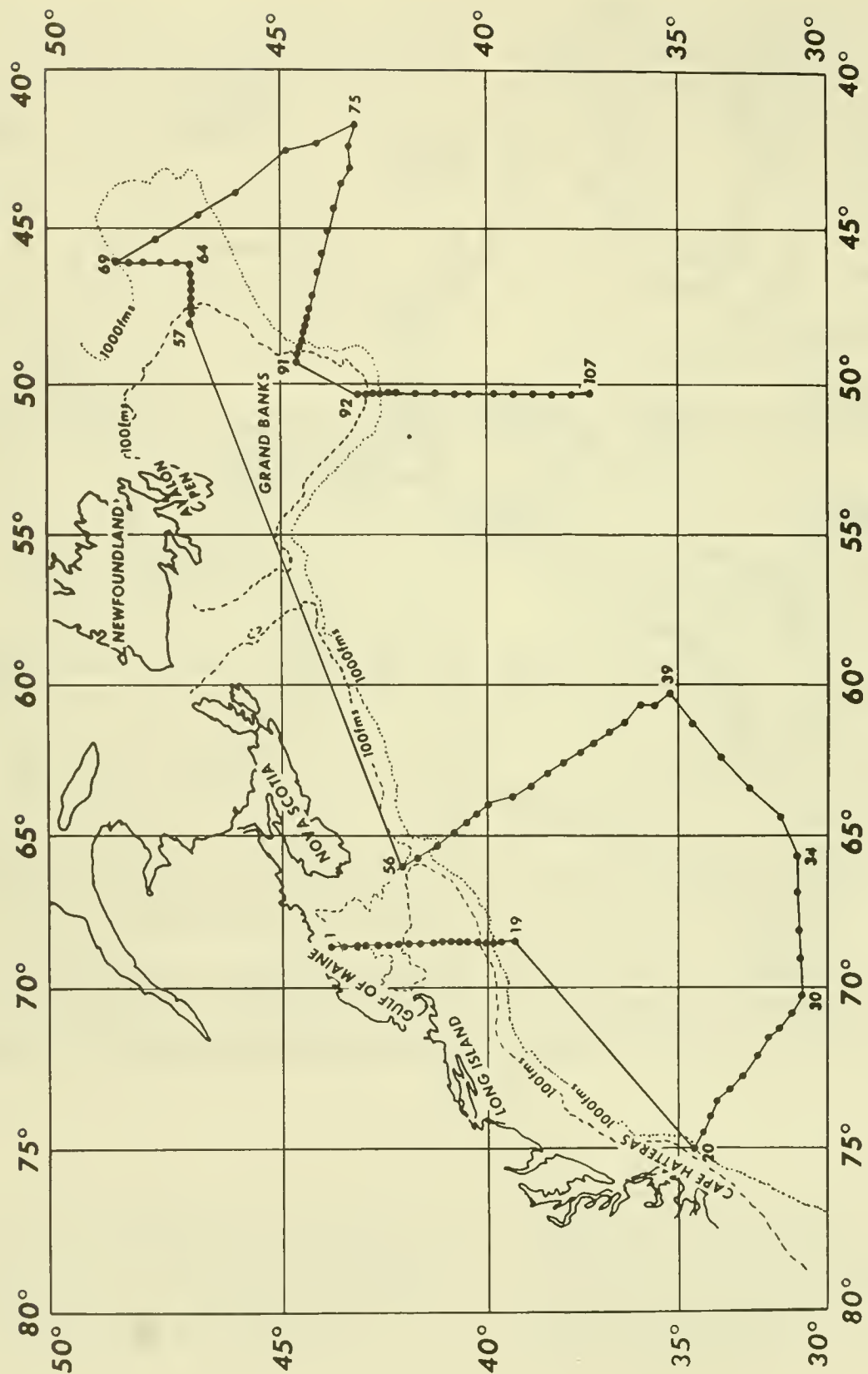


FIGURE 2. Trackline of Gulf Stream-Labrador Current Survey of the USCGC EVERGREEN, 17 October-17 November 1966. Numbers indicate consecutive station numbers. Stations 1-19 were occupied at the request of the Bureau of Commercial Fisheries Biological Laboratory, Woods Hole, Mass. The data for stations 1-19 are not included in this report.

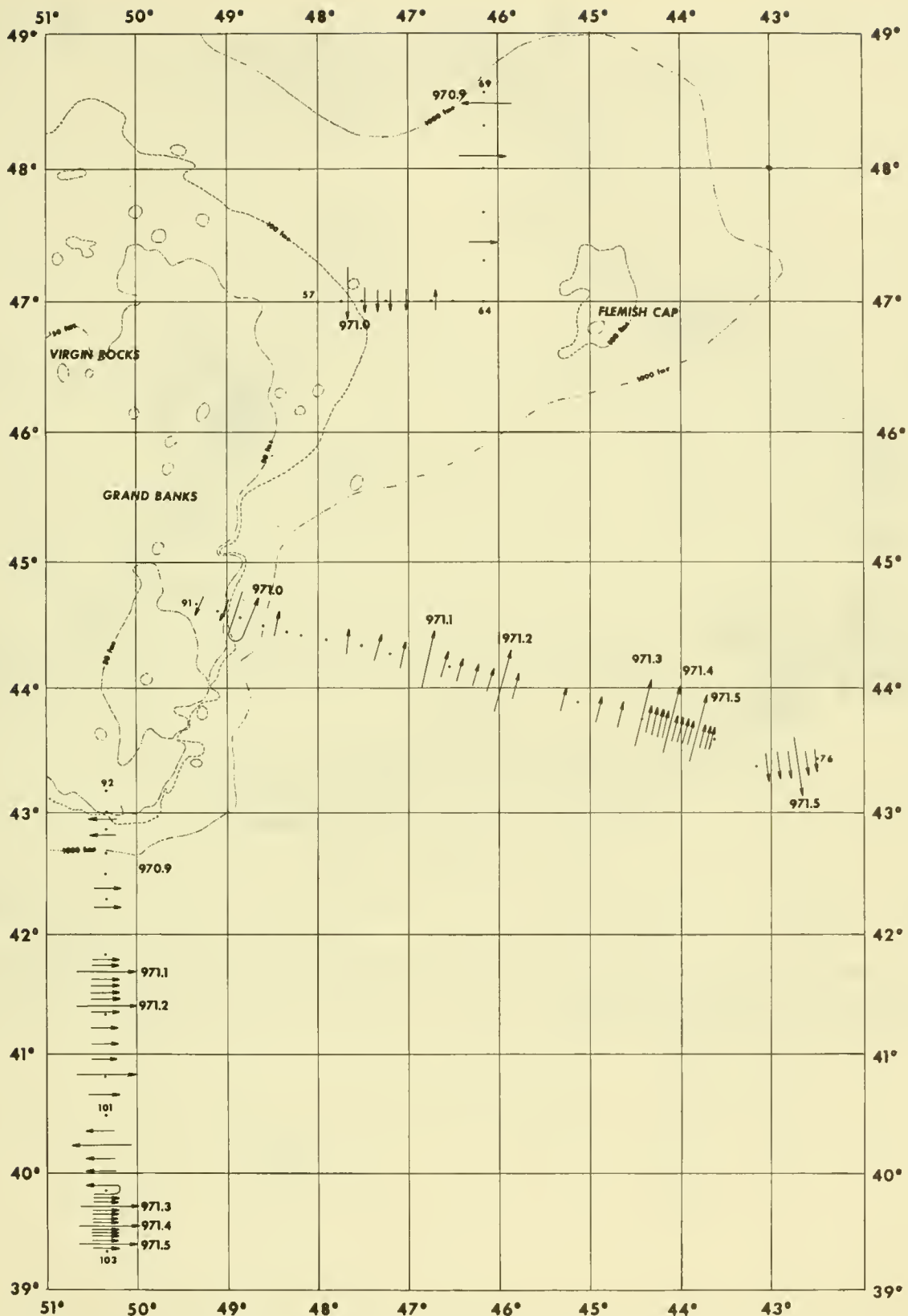


FIGURE 3. Isopleths of surface dynamic height relative to 1,000 decibar surface on North Atlantic Standard Monitoring Sections A2, A3, and A4, 6-13 November 1966, from data of USCGC EVERGREEN. Contour interval is 0.02 dynamic meter. Dots indicate station locations.

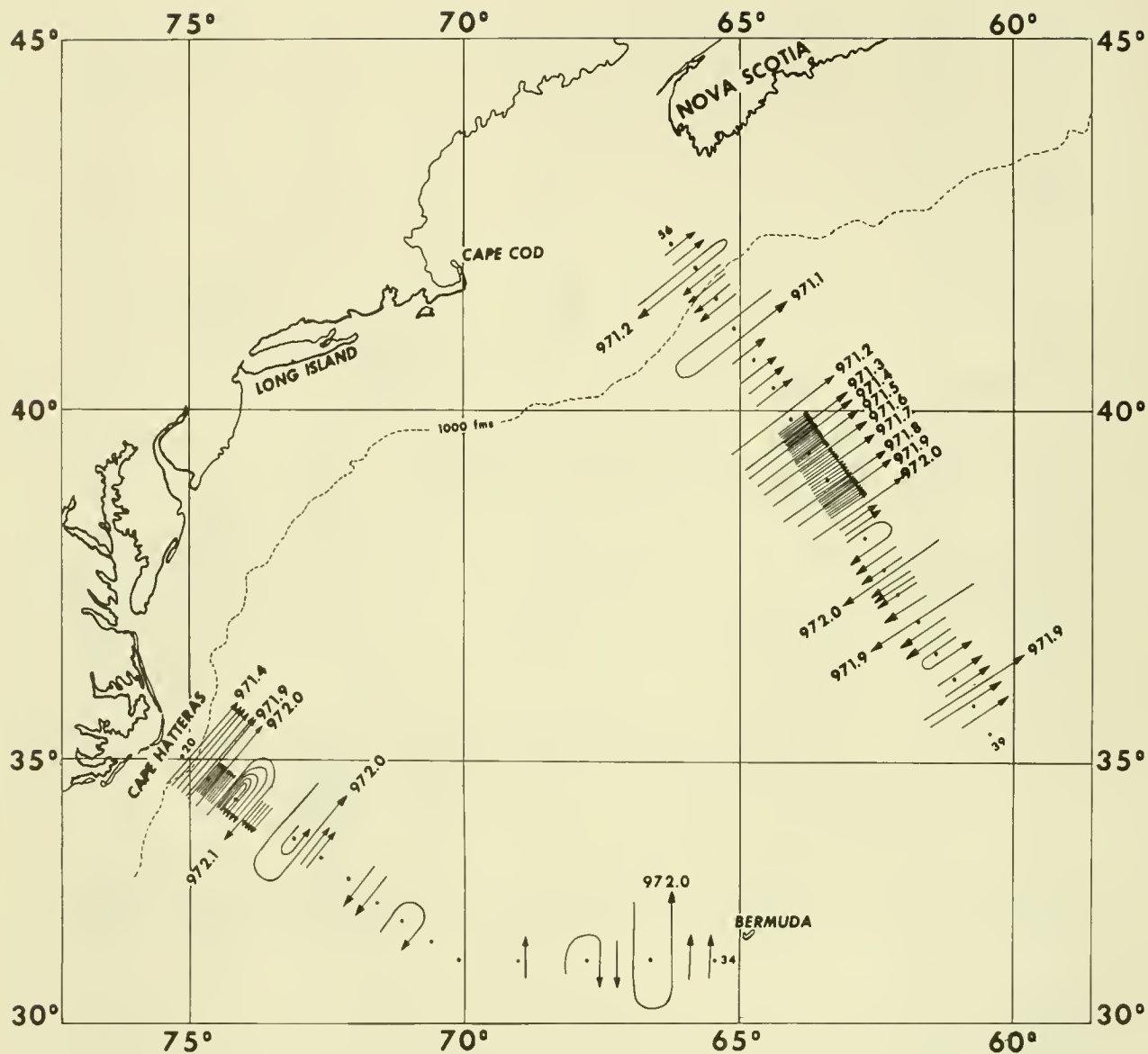


FIGURE 4. Isopleths of surface dynamic height relative to 1,000 decibar surface on North Atlantic Standard Monitoring Sections A5 and AG, 25 October–3 November 1966, from data of USCGC EVERGREEN. Contour interval is 0.02 dynamic meter. Dots indicate station locations.

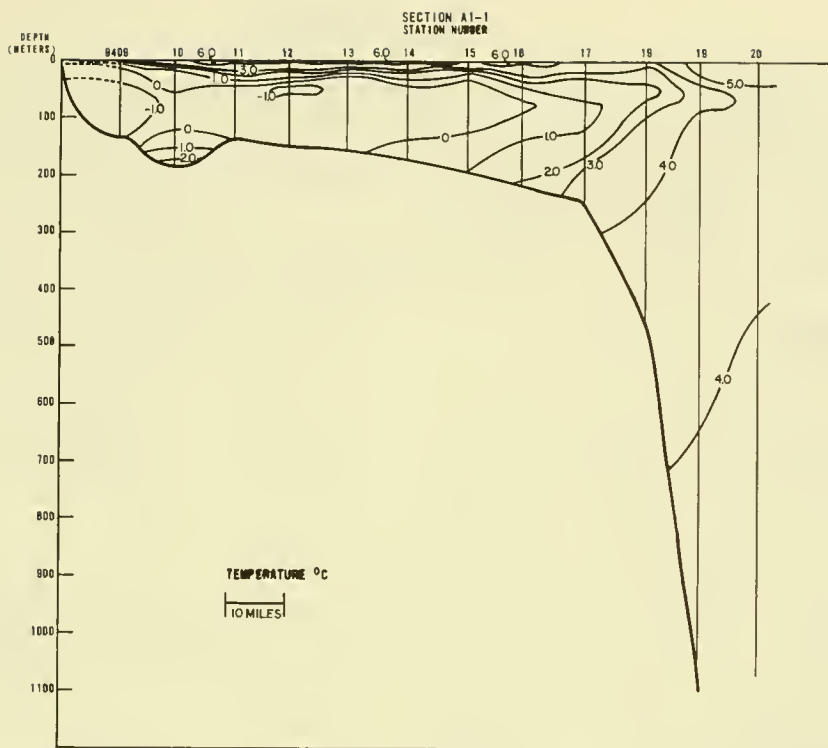


FIGURE 5. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A1 on 25-26 July 1965, prepared from data of USCGC EVERGREEN.



FIGURE 6. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A1 on 25-26 July 1965, prepared from data of USCGC EVERGREEN.

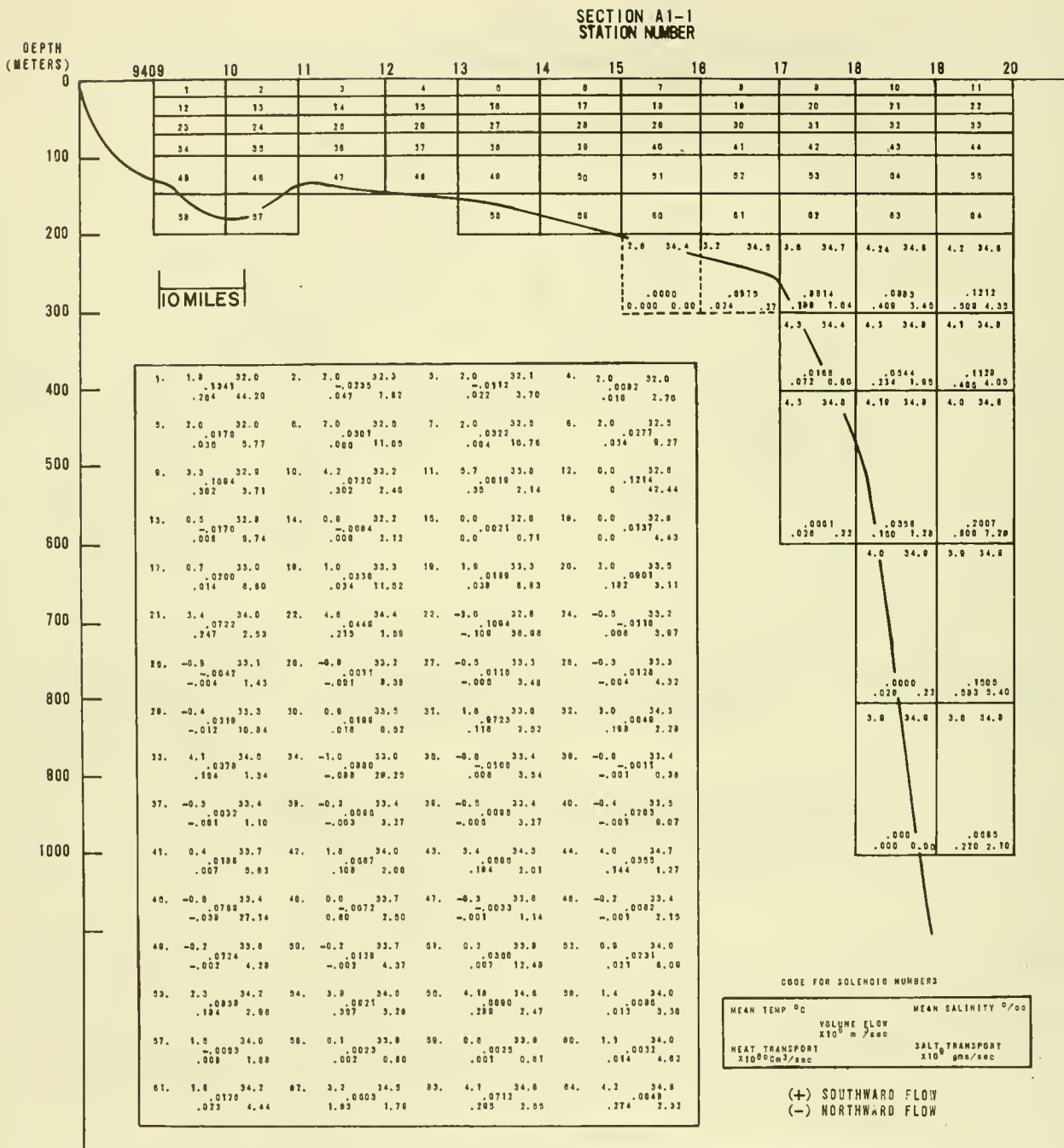


FIGURE 7. Solenoid division of North Atlantic Standard Monitoring Section A1 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 25-26 July 1965.



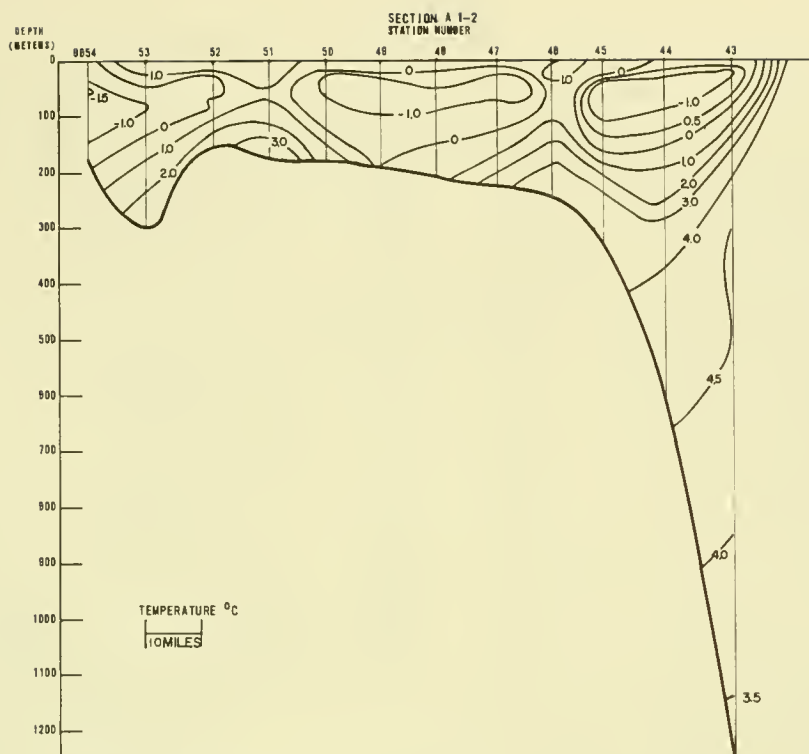


FIGURE 8. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A1 on 6-7 June 1966. Prepared from data of USCGC EVERGREEN.

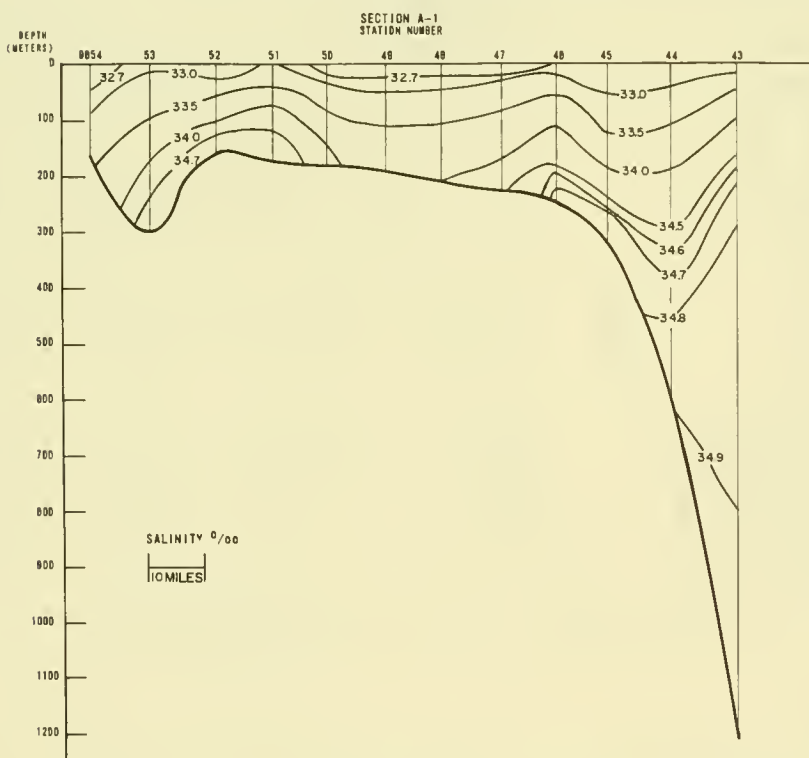


FIGURE 9. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A1 on 6-7 June 1966, prepared from data of USCGC EVERGREEN.



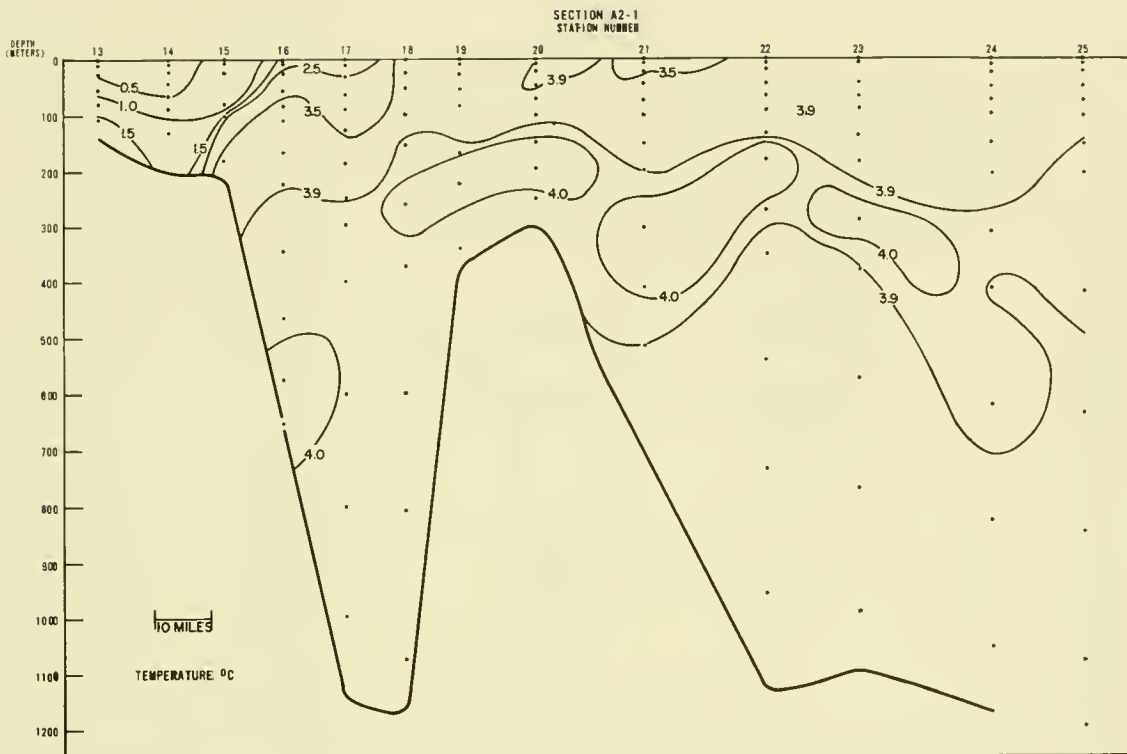


FIGURE 11. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A2 on 11-12 March 1966, prepared from data of USCGC HUMBOLDT.

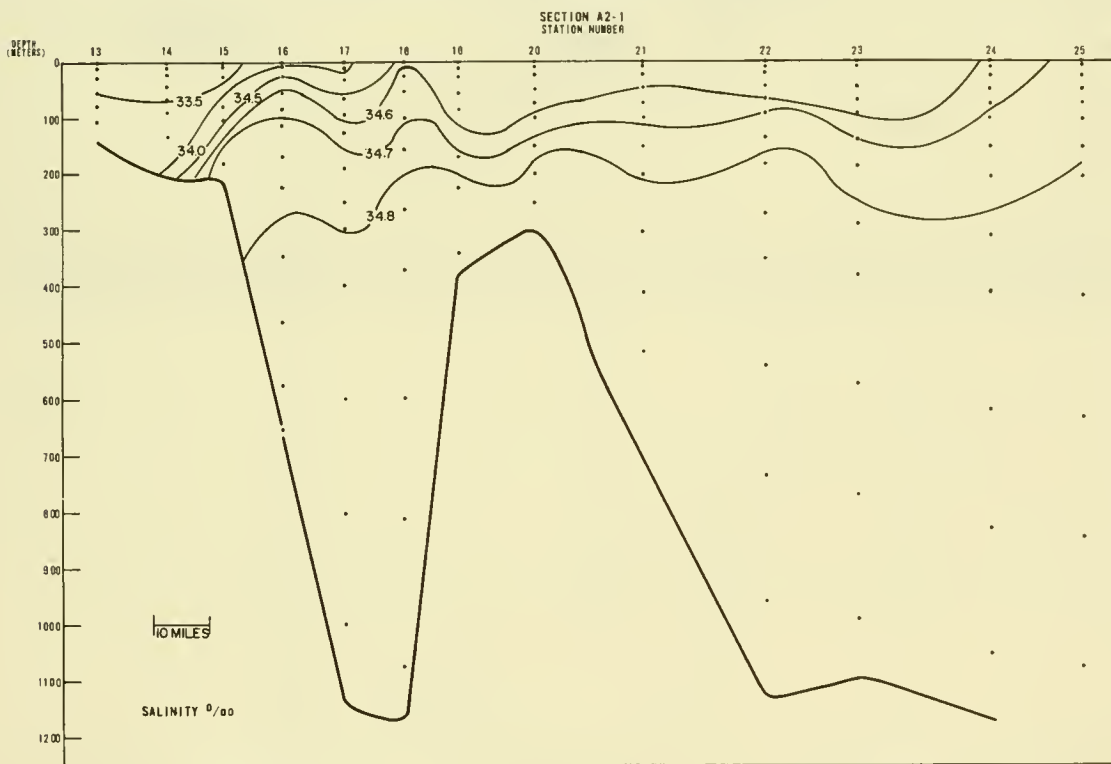


FIGURE 12. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A2 on 11-12 March 1966, prepared from data of USCGC HUMBOLDT.

# SECTION A2-1 STATION NUMBER

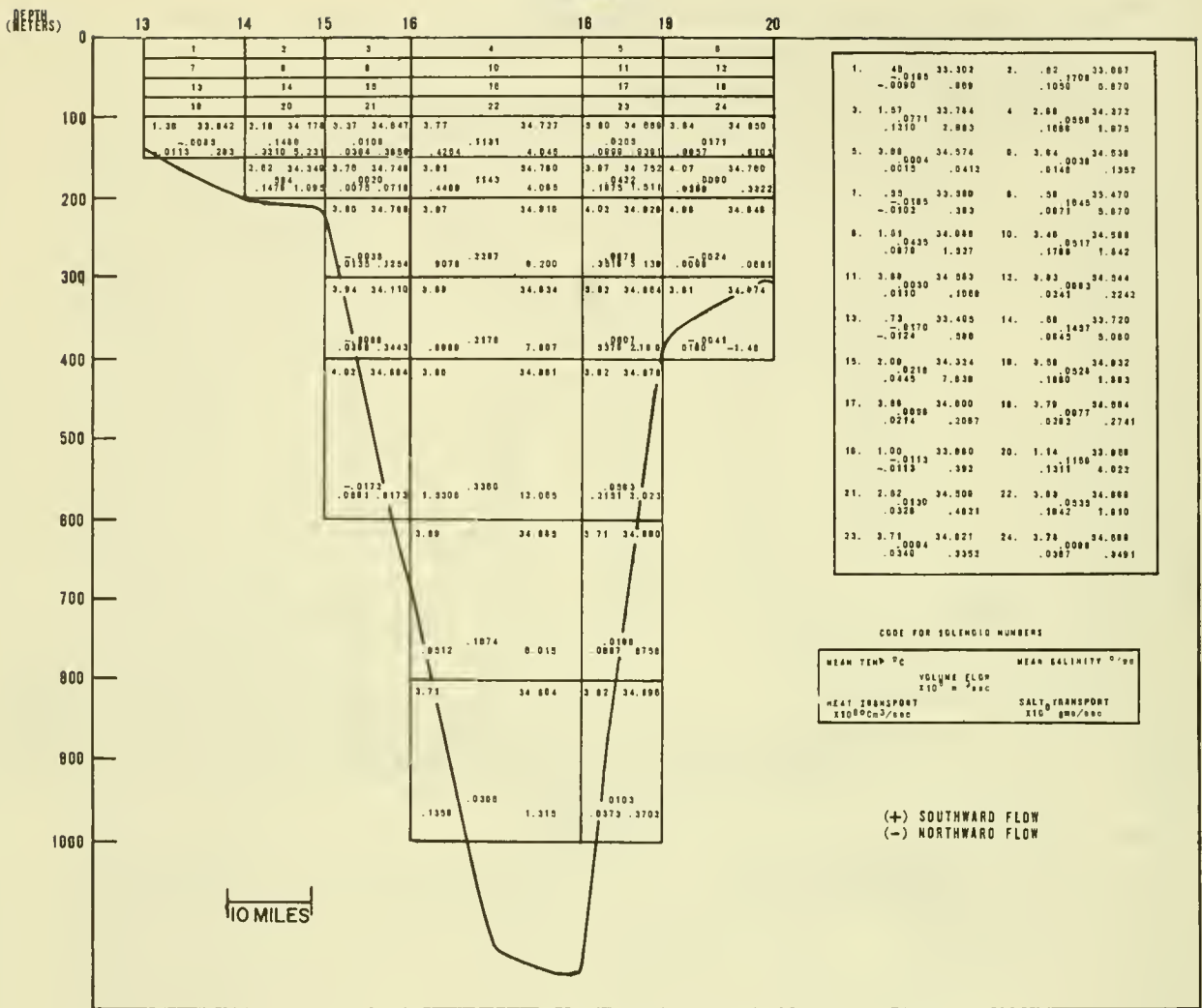


FIGURE 13. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC HUMBOLDT, 11-12 March 1966.

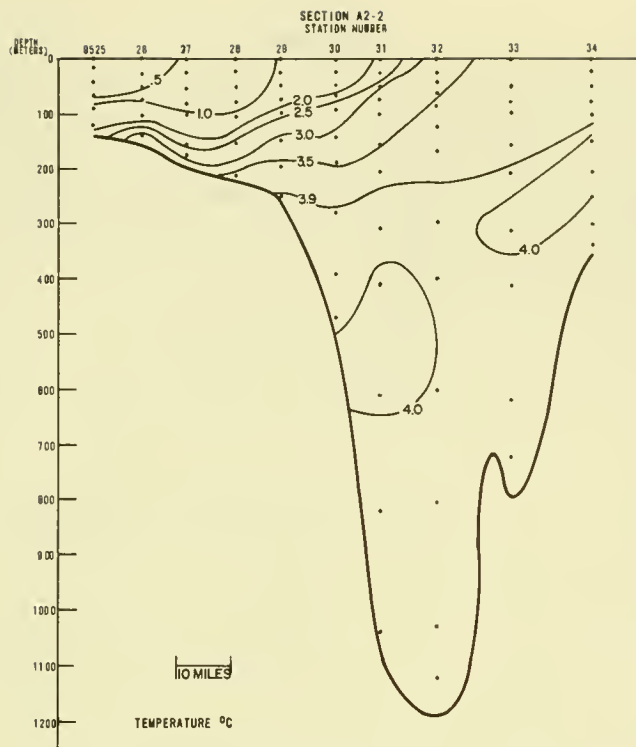


FIGURE 14. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A2 on 7-8 April 1966, prepared from data of USCGC EVERGREEN.

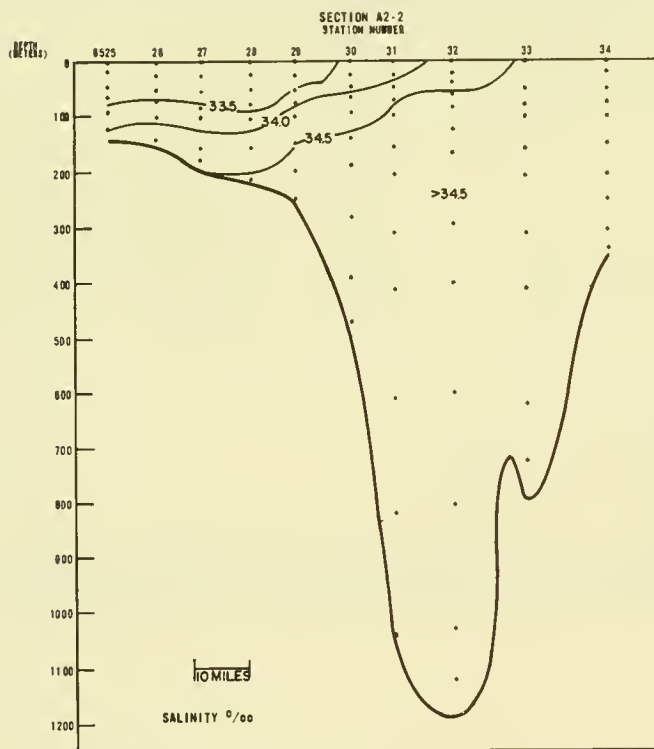


FIGURE 15. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A2 on 7-8 April 1966, prepared from data of USCGC EVERGREEN.

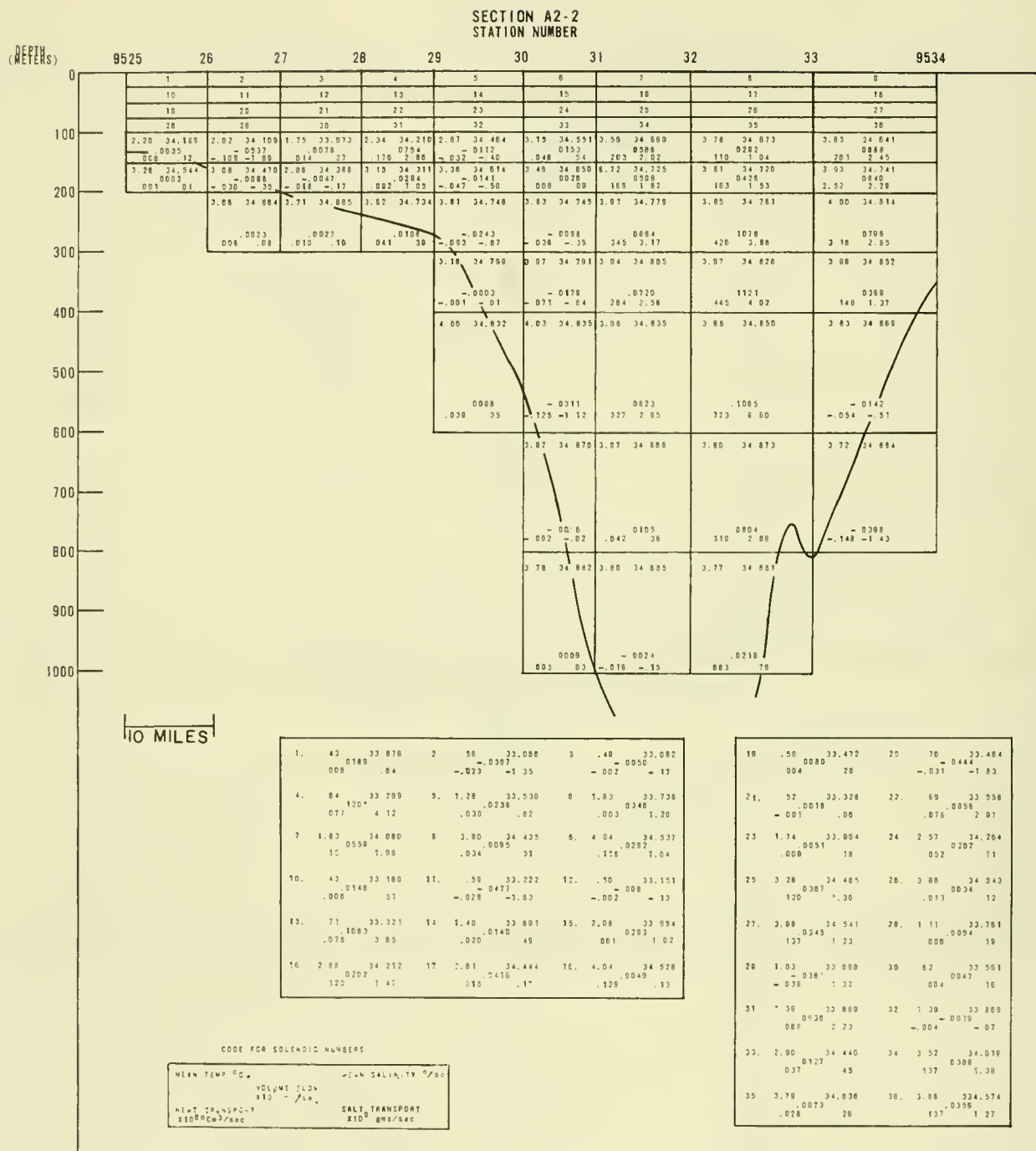


FIGURE 16. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 7-8 April 1966.



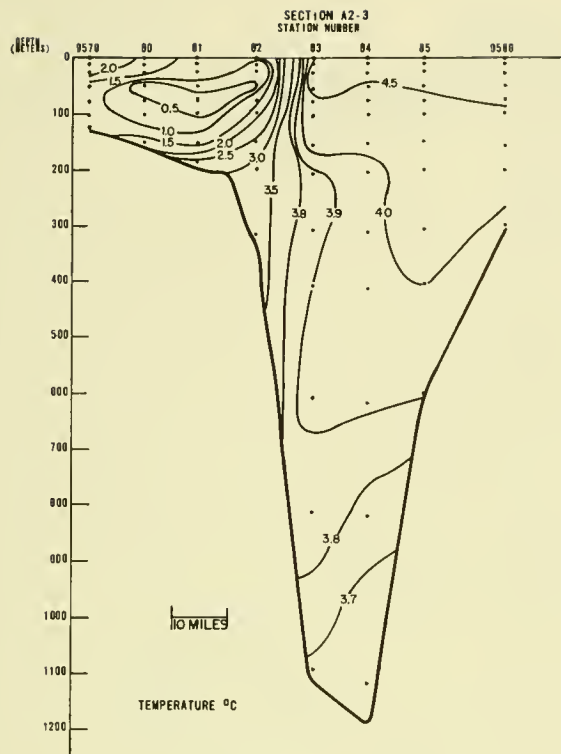


FIGURE 17. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A2 on 26-27 May 1966, prepared from data of USCGC EVERGREEN.

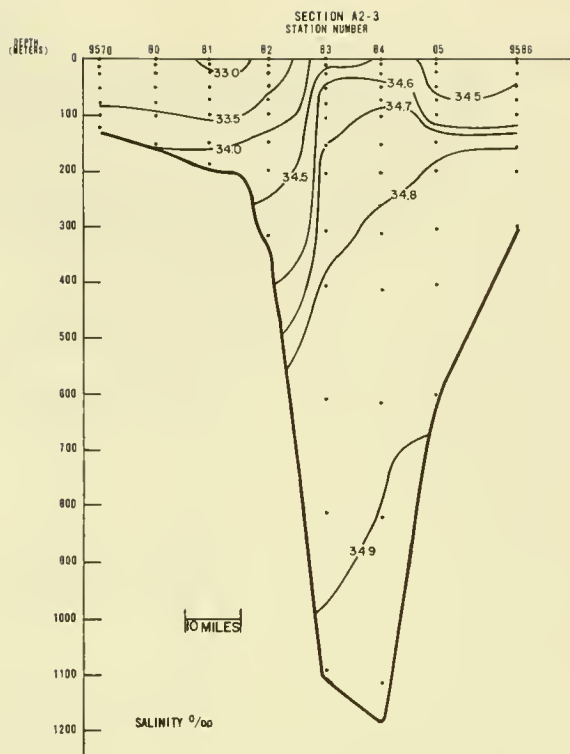


FIGURE 18. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A2 on 26-27 May 1966, prepared from data of USCGC EVERGREEN.

SECTION A2-3  
STATION NUMBER

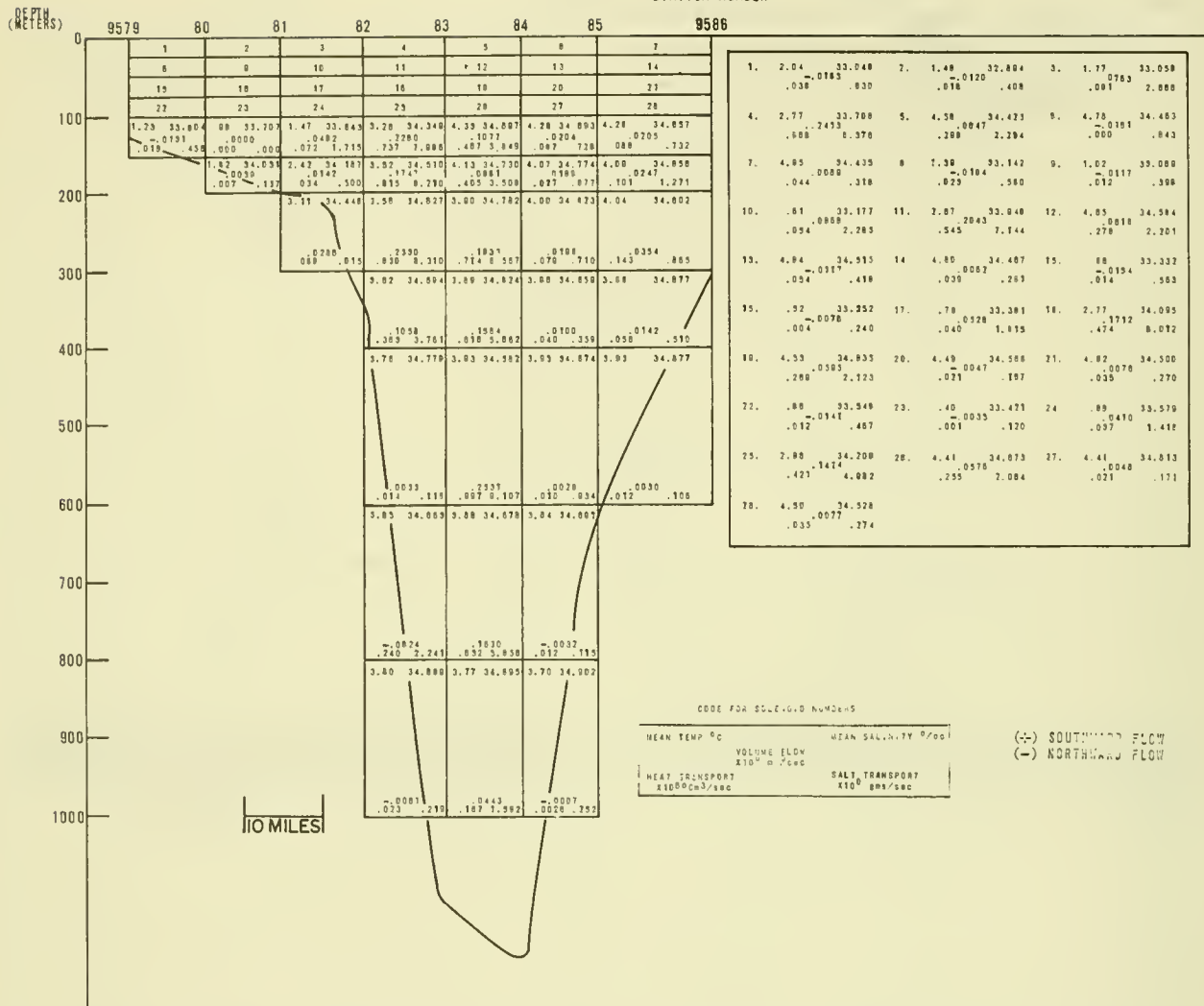


FIGURE 19. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 26-27 May 1966.

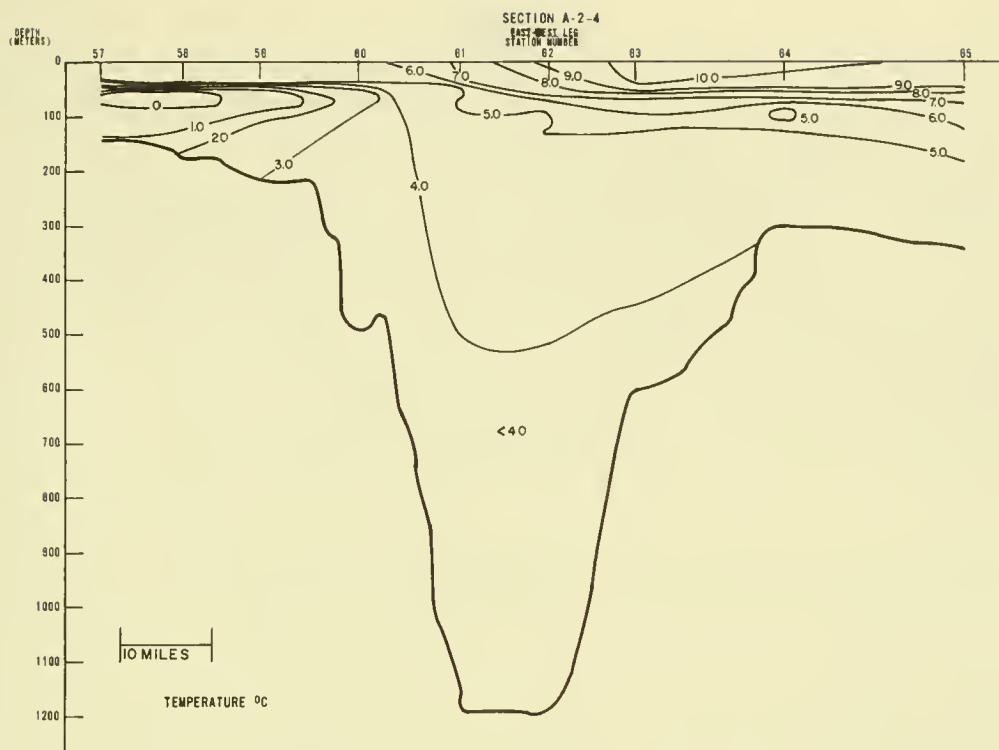


FIGURE 20(a). Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the east to west portion of the section.

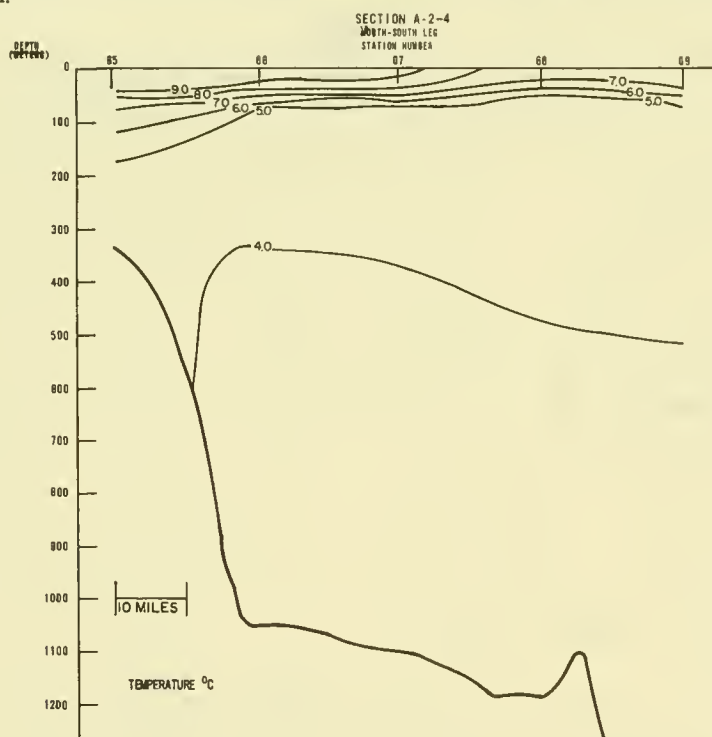


FIGURE 20(b). Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the north to south portion of the section.

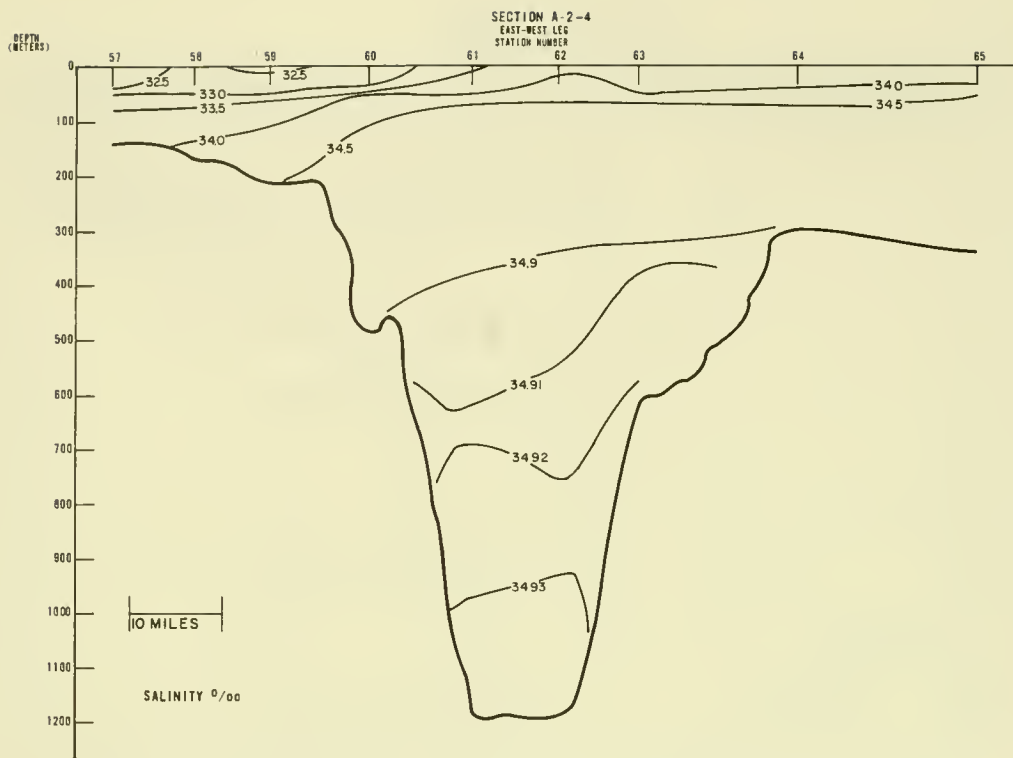


FIGURE 21(a). Vertical cross section salinity (‰) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the east to west portion of the section.

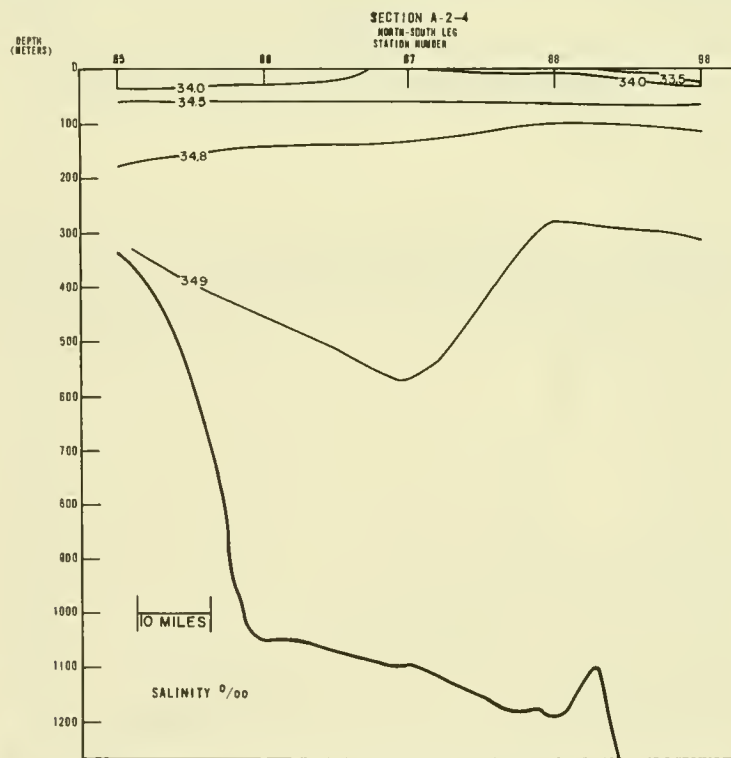


FIGURE 21(b). Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A2 on 6-7 November 1966, prepared from data of USCGC EVERGREEN. This cross section contains only the north to south portion of the section.

# SECTION A-2-4 STATION NUMBER

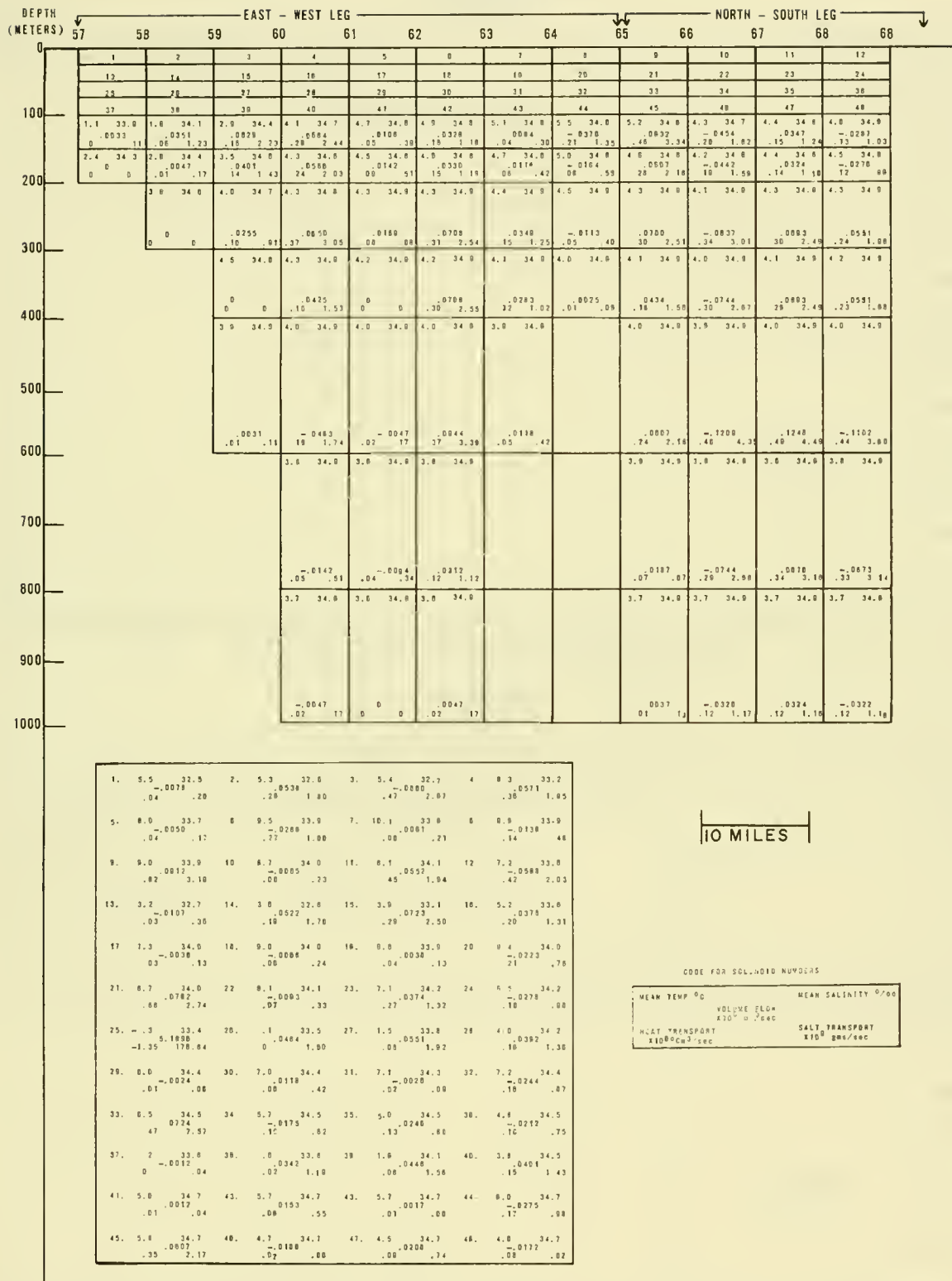


FIGURE 22. Solenoid division of North Atlantic Standard Monitoring Section A2 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 6-7 November 1966.

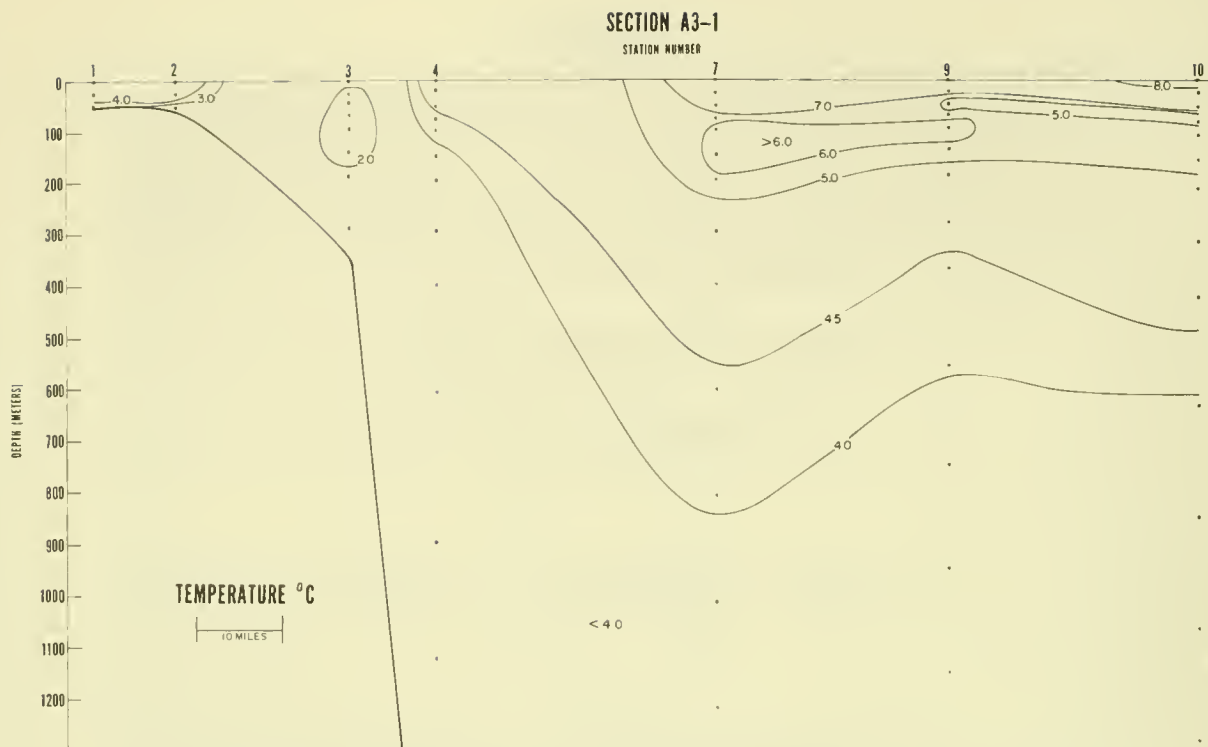


FIGURE 23. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 23-24 November 1964, prepared from data of USCGC MENDOTA.

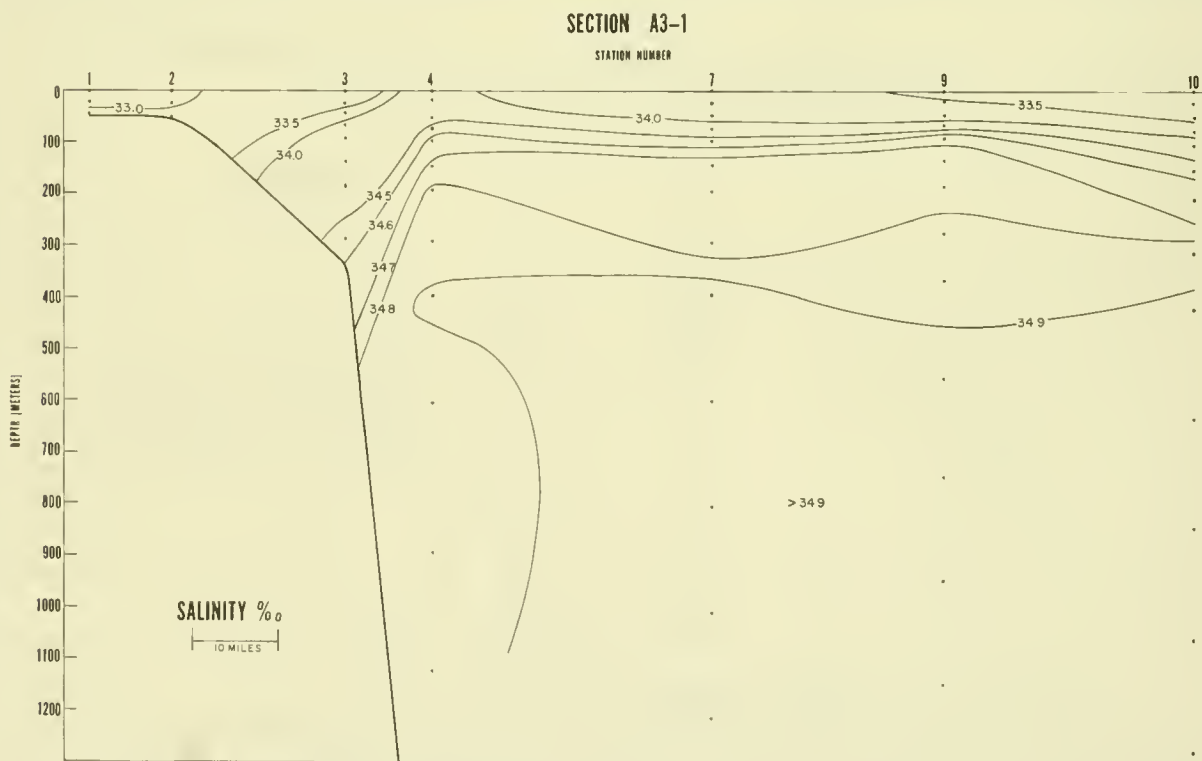


FIGURE 24. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 23-24 November 1964, prepared from data of USCGC MENDOTA.



# SECTION A3-1 STATION NUMBER

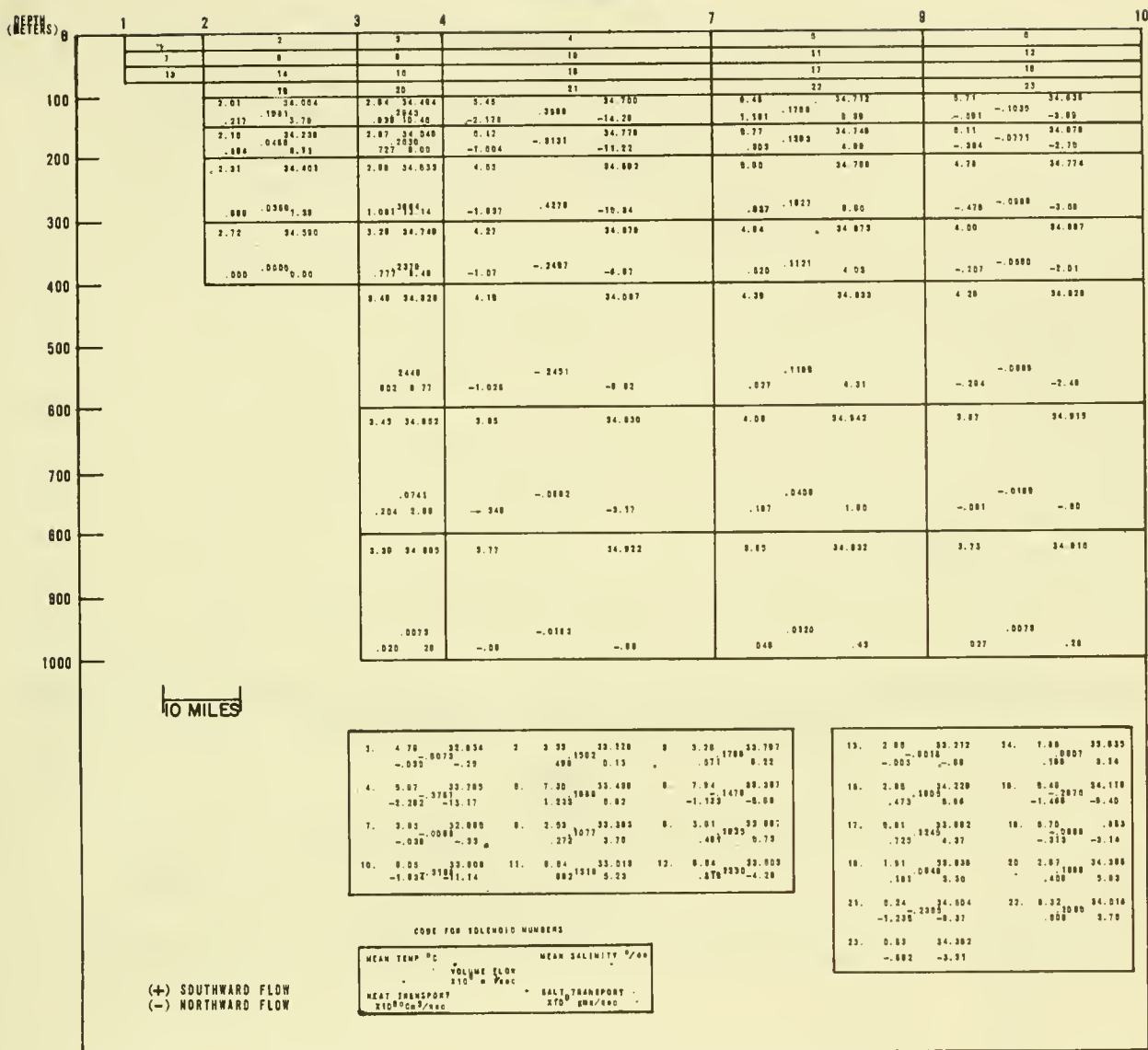


FIGURE 25. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC MENDOTA, 23-24 November 1966.

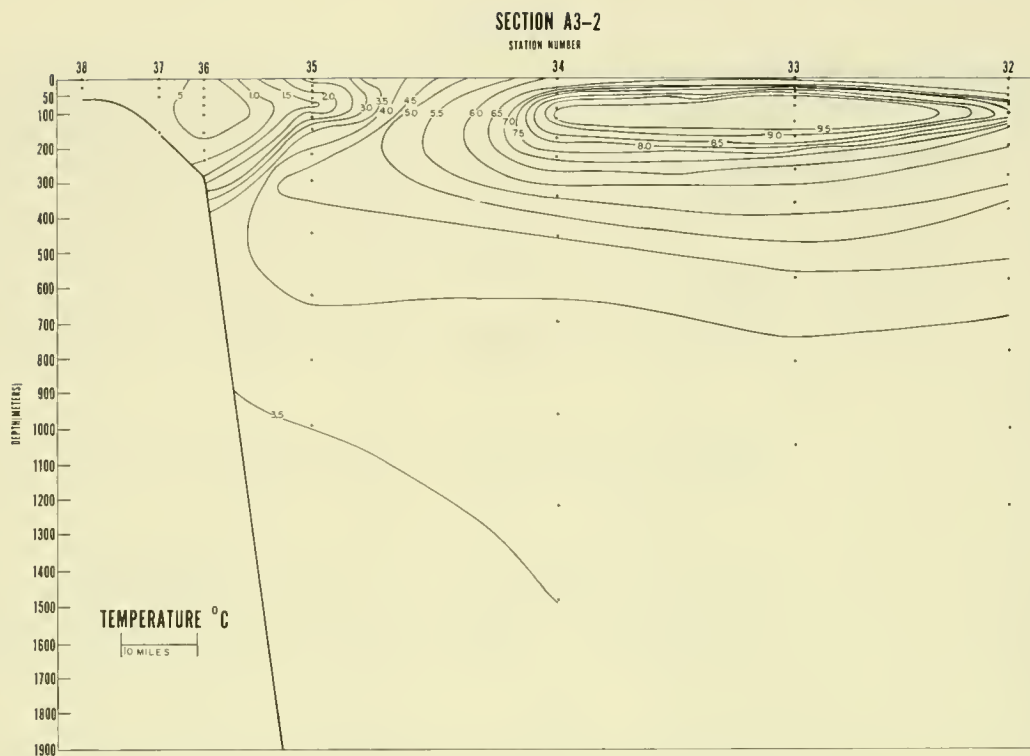


FIGURE 26. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 28-29 January 1965, prepared from data of USCGC INGHAM.

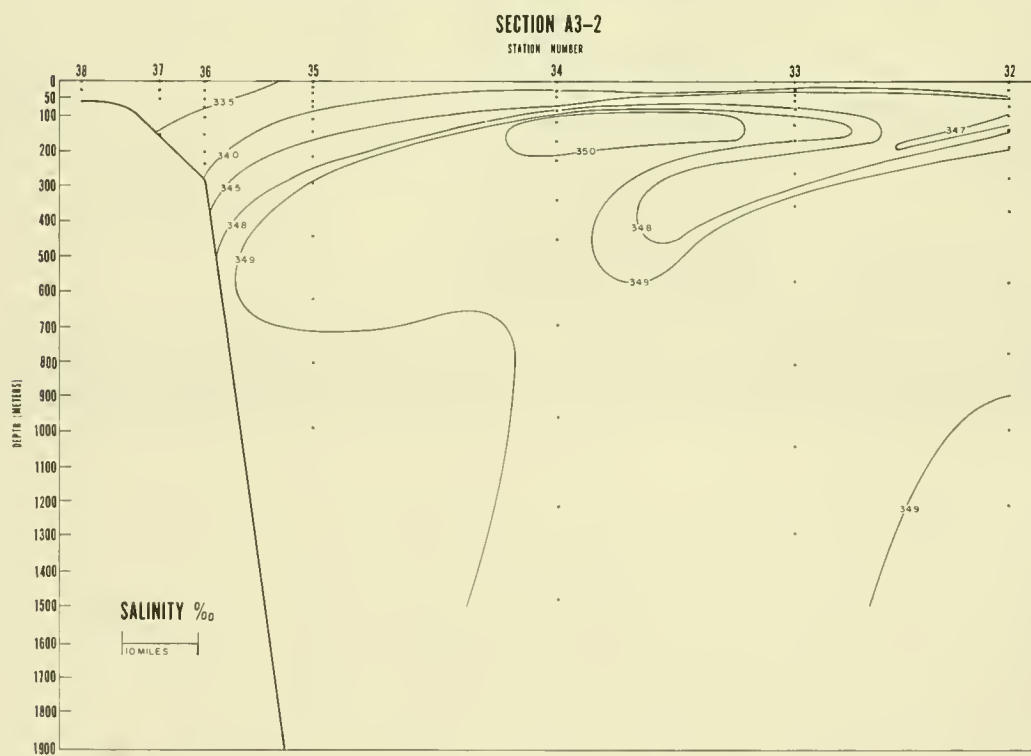
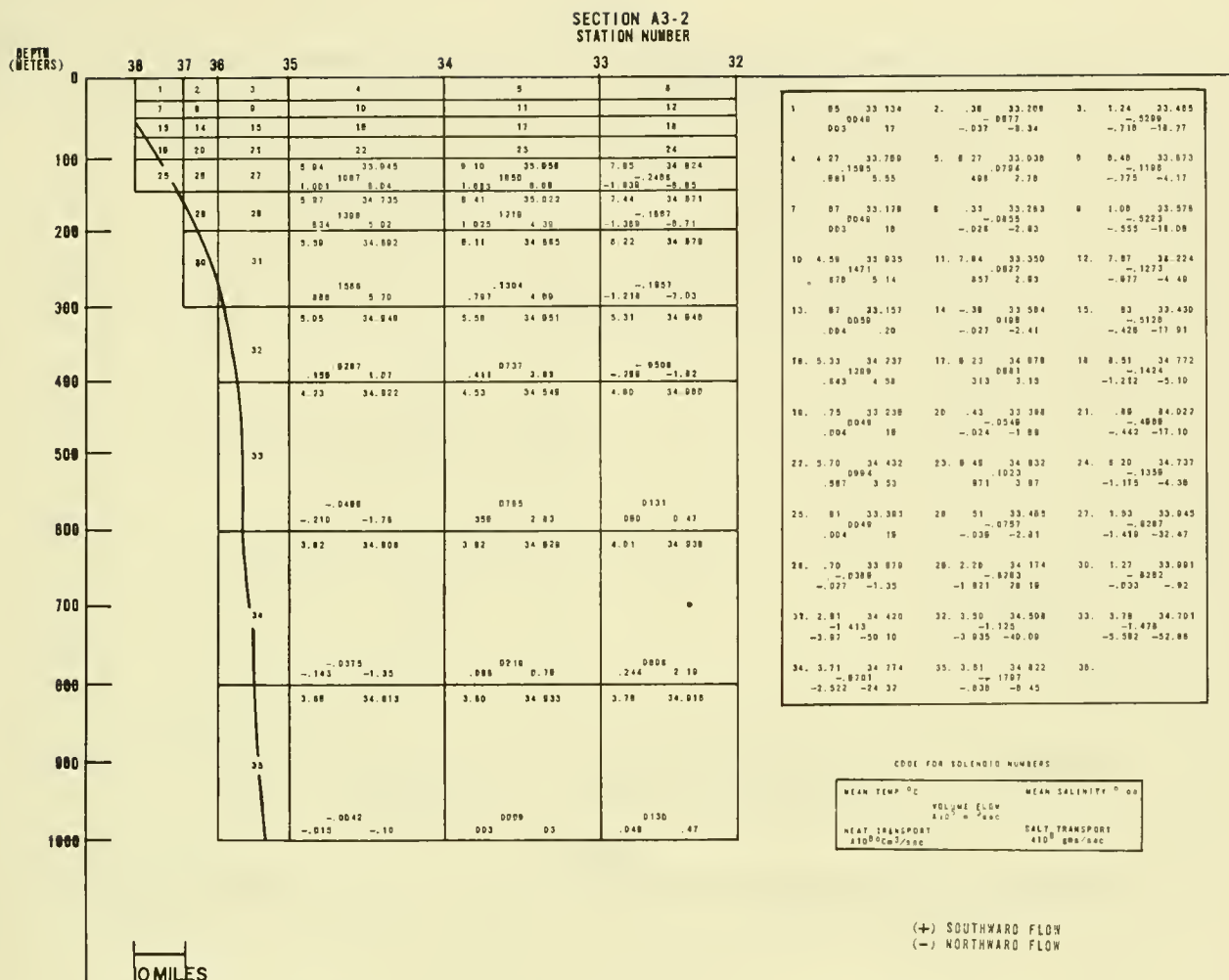


FIGURE 27. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 28-29 January 1965, prepared from data of USCGC INGHAM.



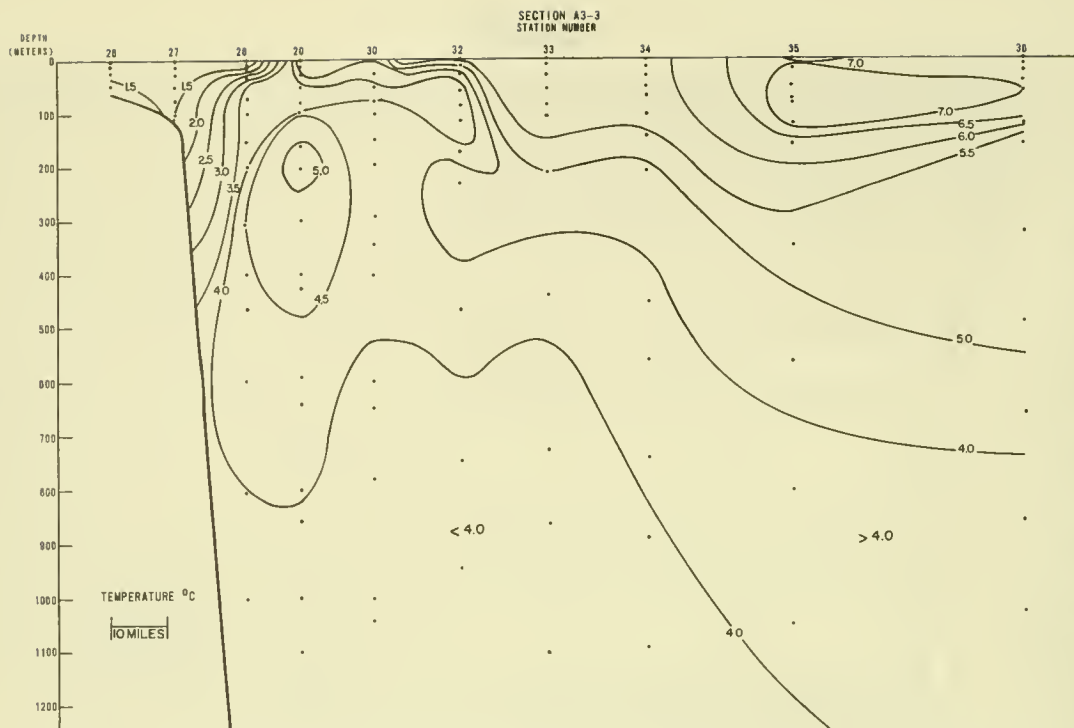


FIGURE 29. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 14-15 February 1966, prepared from data of USCGC DUANE.

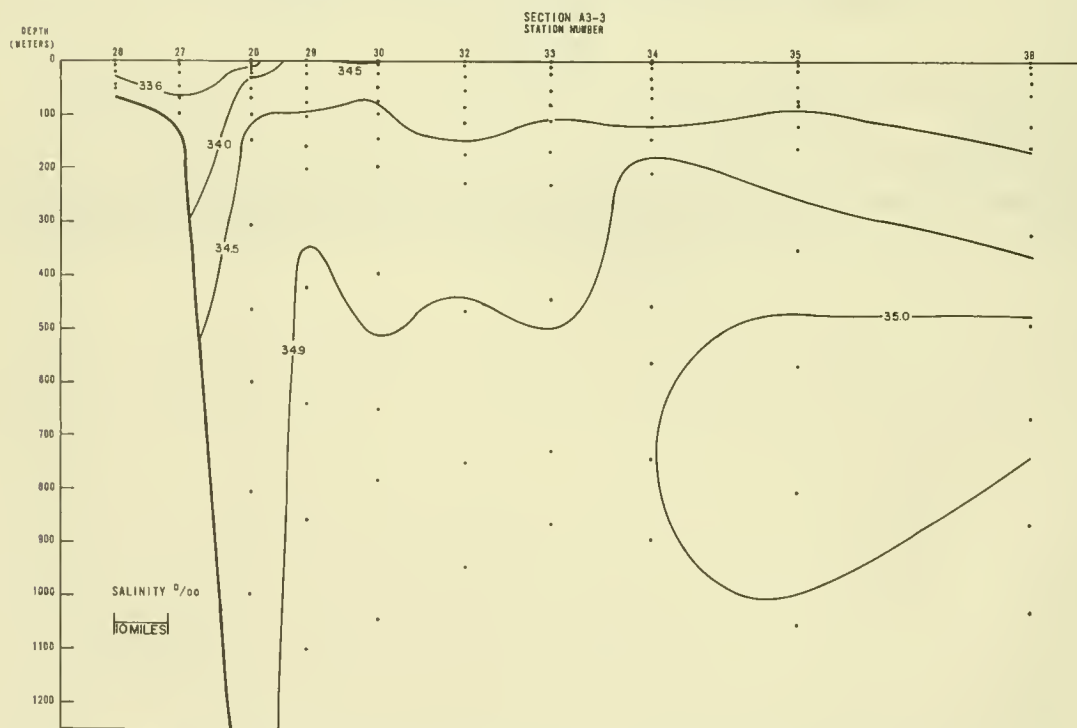


FIGURE 30. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 14-15 February 1966, prepared from data of USCGC DUANE.

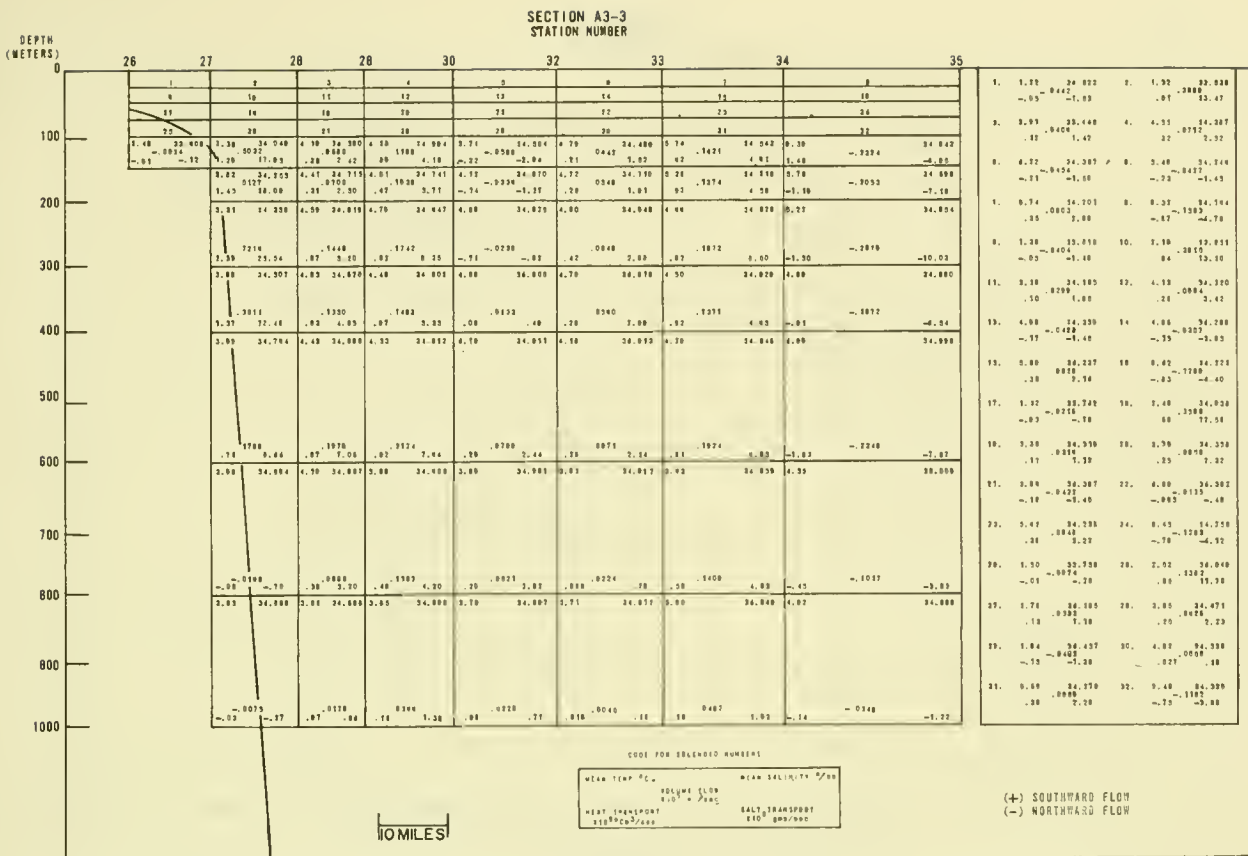


FIGURE 31. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC DUANE, 14-15 February 1966.

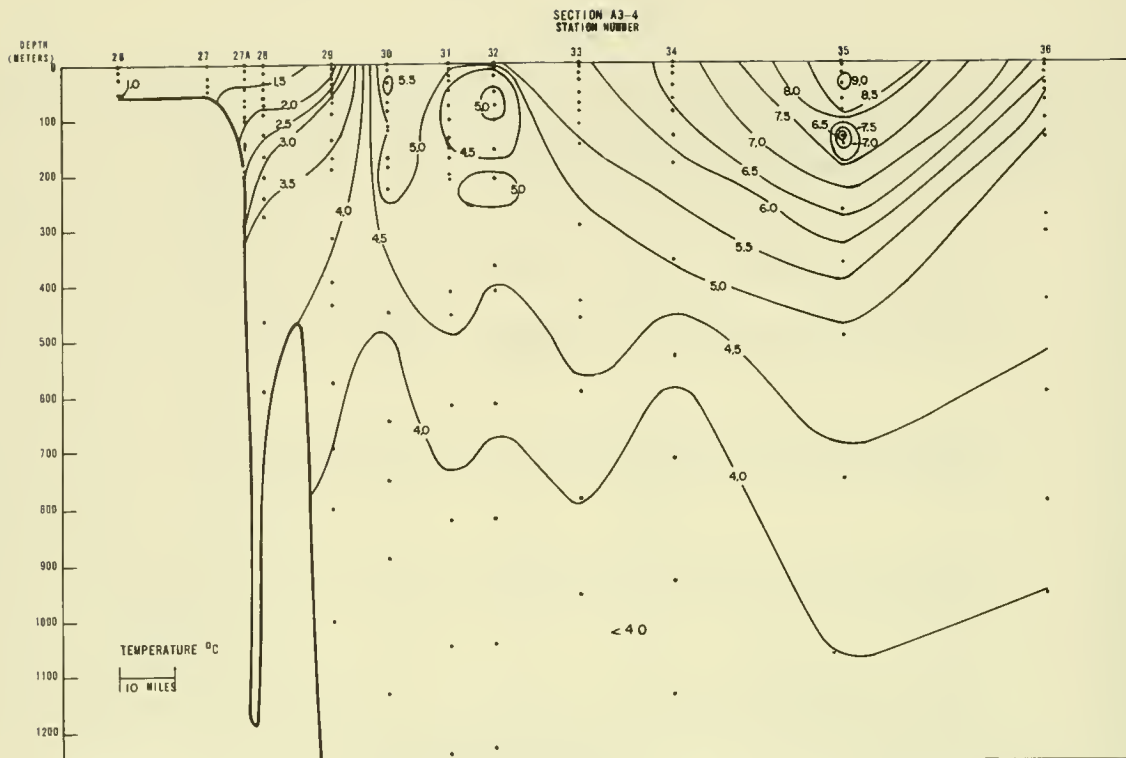


FIGURE 32. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 9-10 March 1966, prepared from data of USCGC HUMBOLDT.

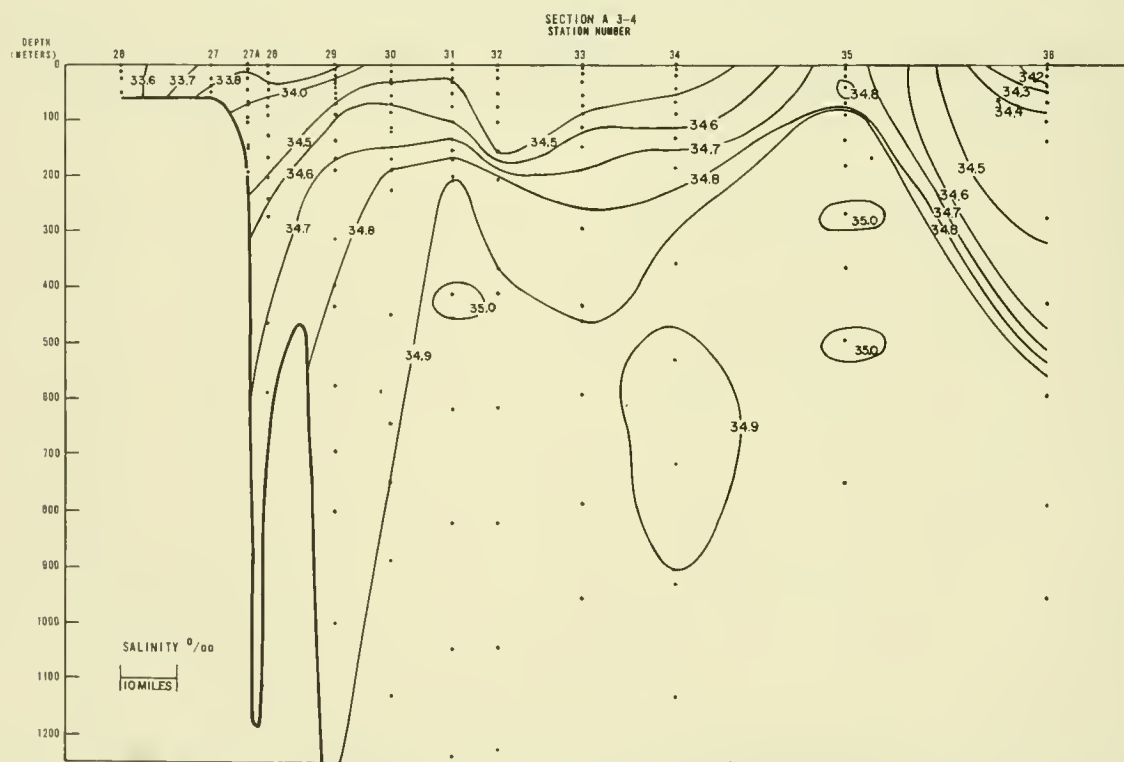


FIGURE 33. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A3 on 9-10 March 1966, prepared from data of USCGC HUMBOLDT.

SECTION A3-4  
STATION NUMBER

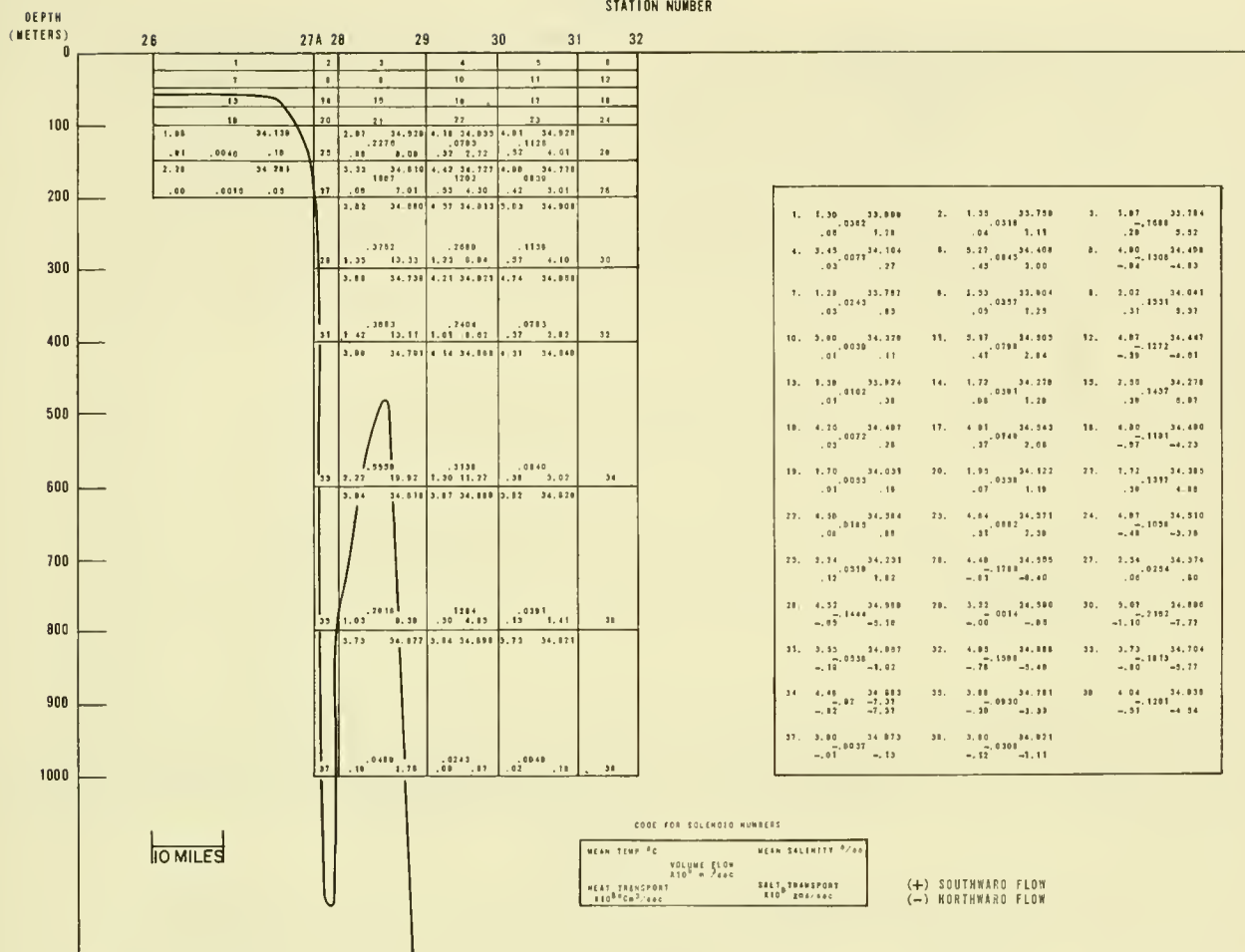


FIGURE 34. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC HUMBOLDT, 9-10 March 1966.



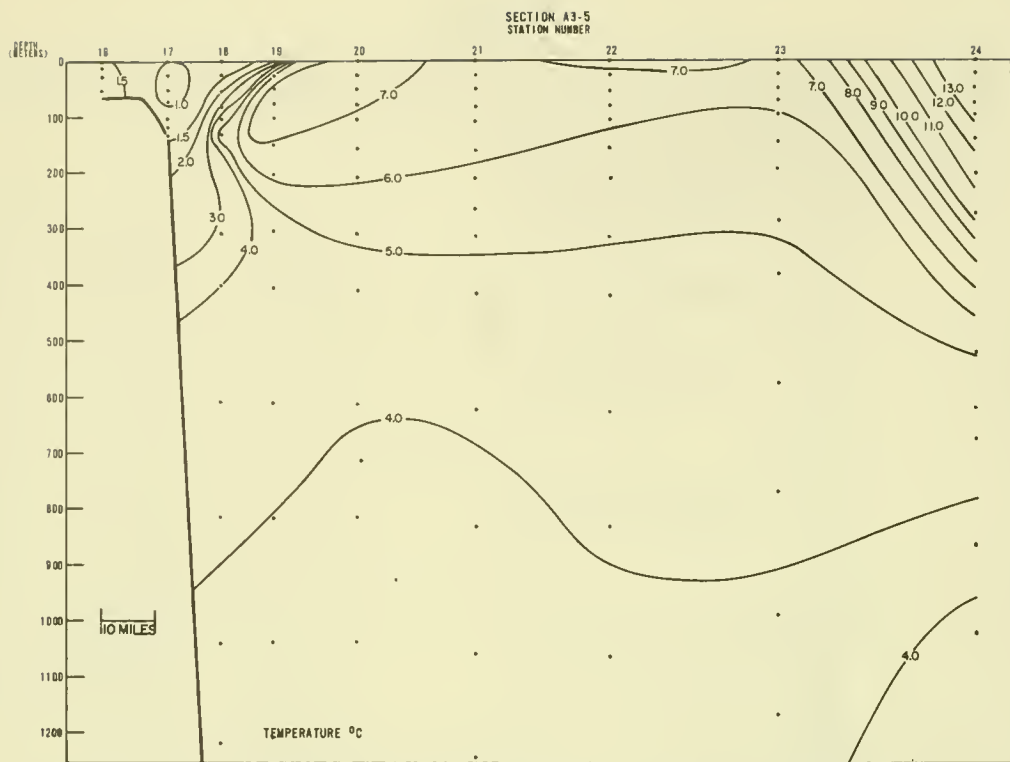


FIGURE 35. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 4-5 April 1966, prepared from data of USCGC EVERGREEN.

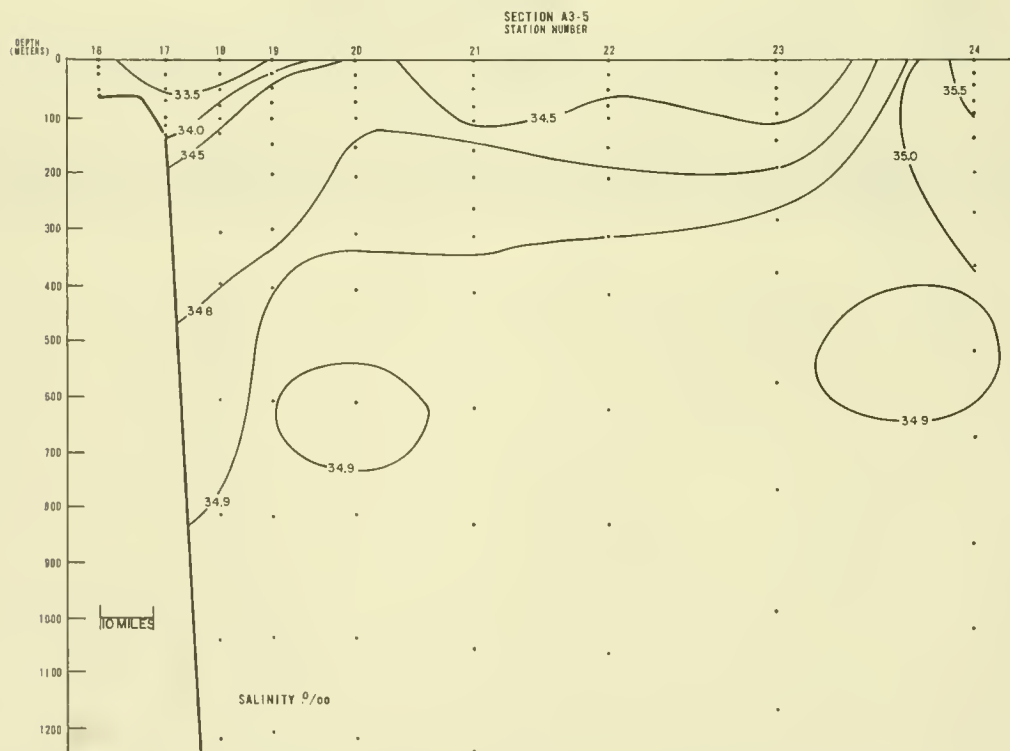


FIGURE 36. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 4-5 April 1966, prepared from data of USCGC EVERGREEN.



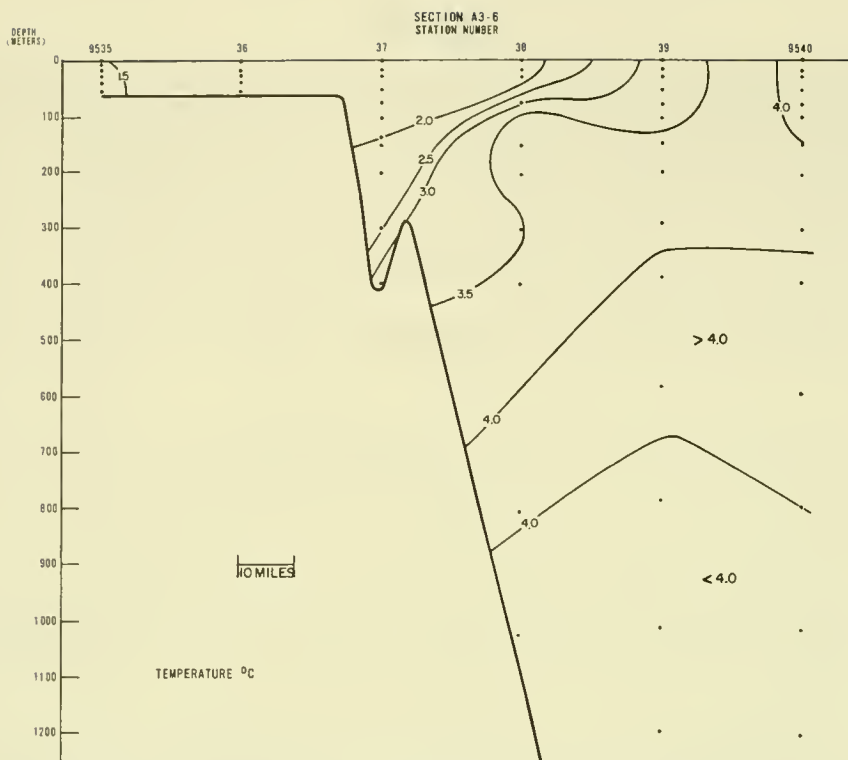


FIGURE 38. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 16-17 April, 1966, prepared from data of USCGC EVERGREEN.

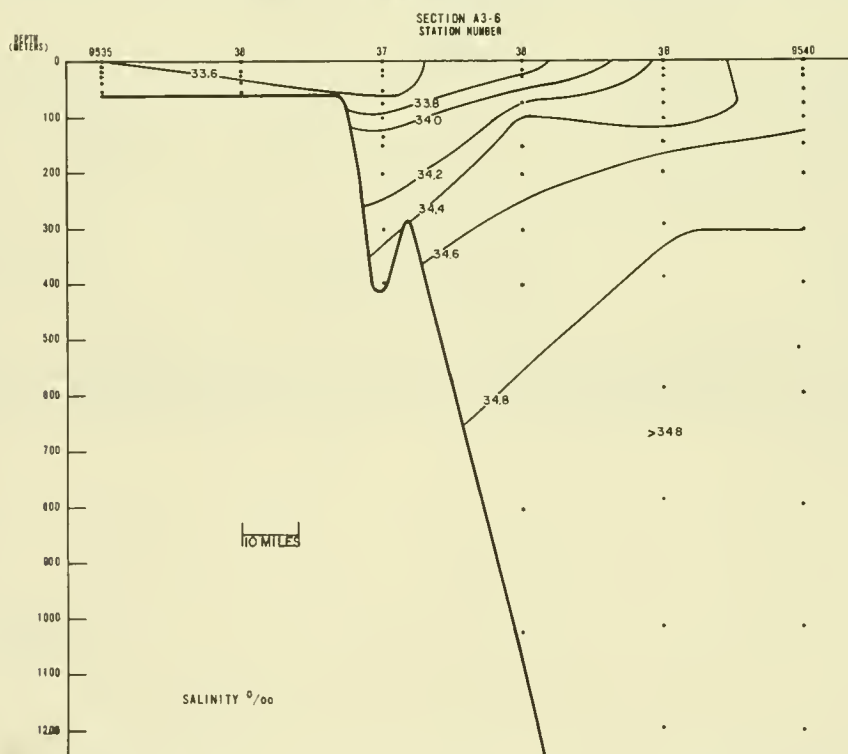


FIGURE 39. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 16-17 April 1966, prepared from data of USCGC EVERGREEN.

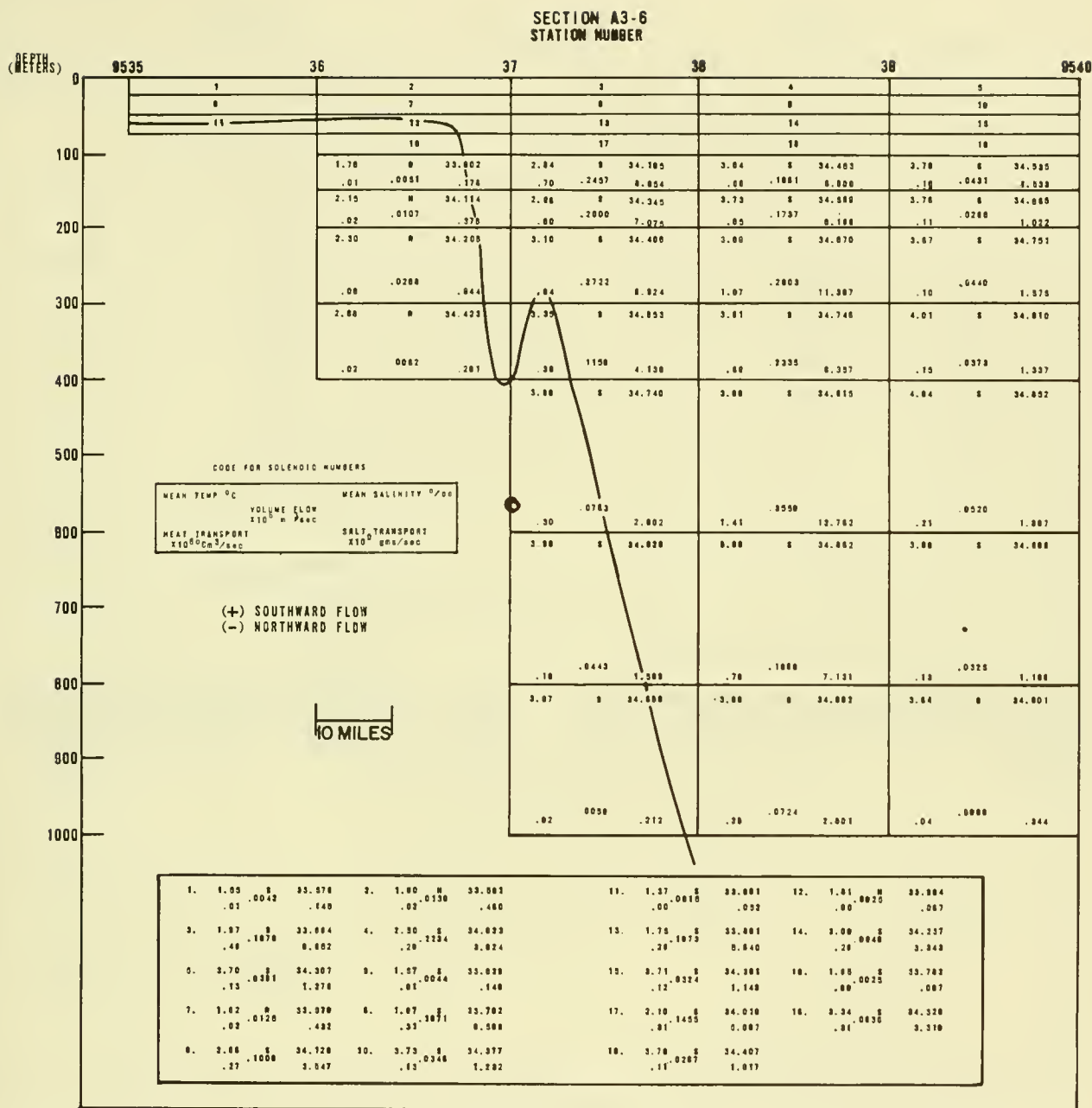


FIGURE 40. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 16-17 April 1966.

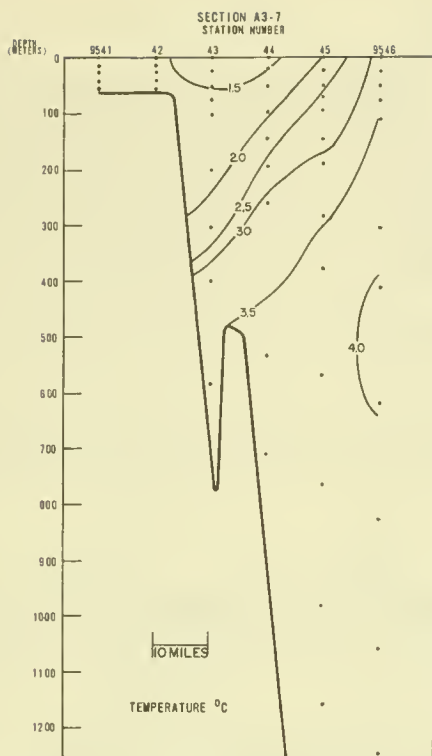


FIGURE 41. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 18-19 April 1966, prepared from data of USCGC EVERGREEN.

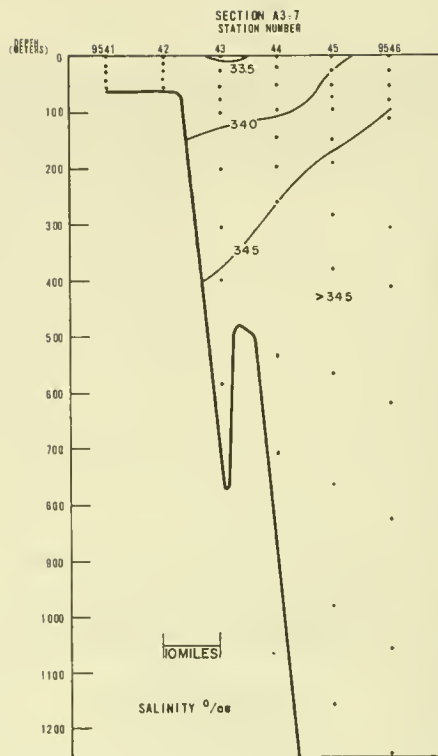


FIGURE 42. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A3 on 18-19 April 1966, prepared from data of USCGC EVERGREEN.

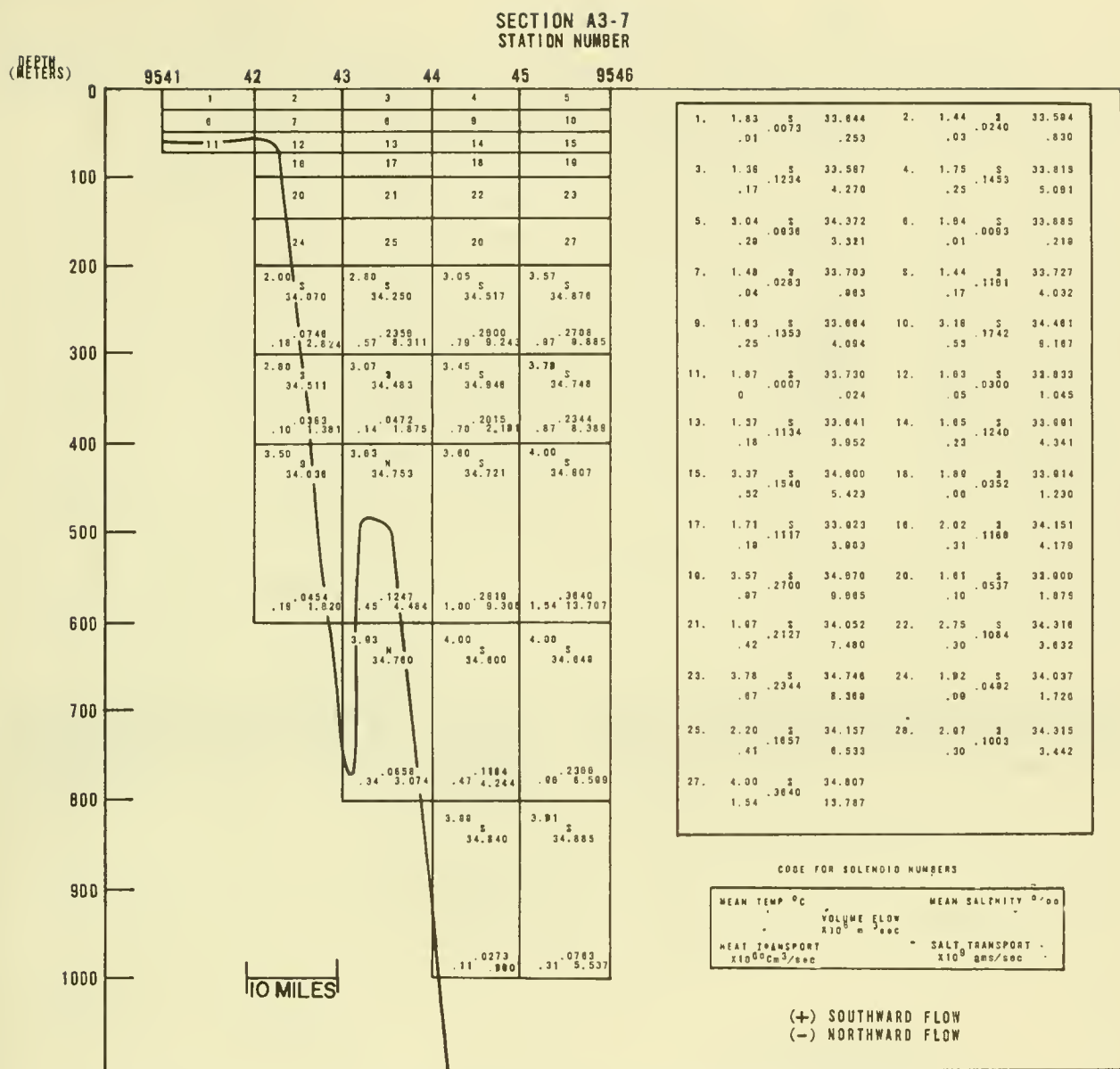


FIGURE 43. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 18-19 April 1966.

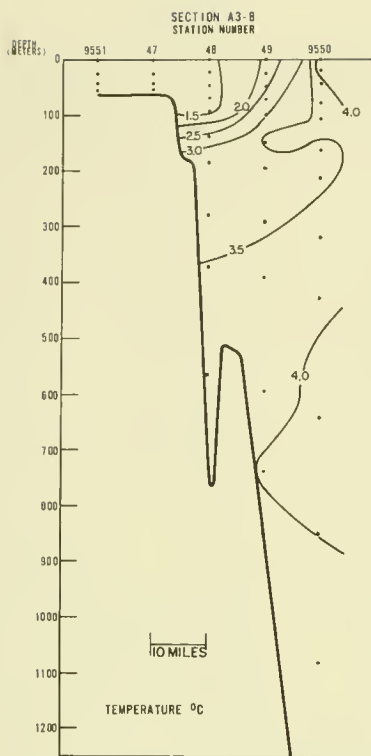


FIGURE 45. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 21 April 1966, prepared from data of USCGC EVERGREEN.

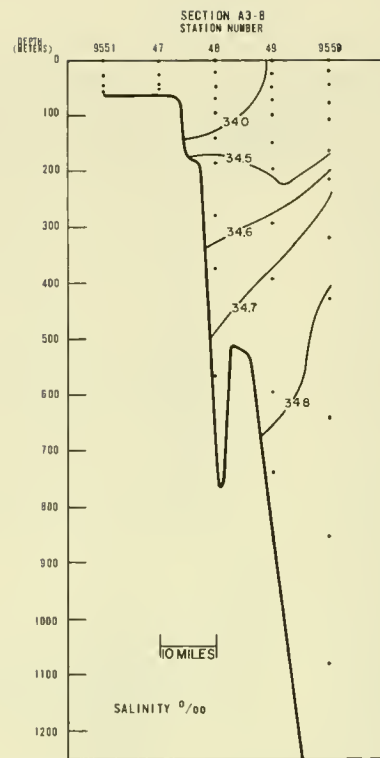


FIGURE 44. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A3 on 21 April 1966, prepared from data of USCGC EVERGREEN.



# SECTION A3-8 STATION NUMBER

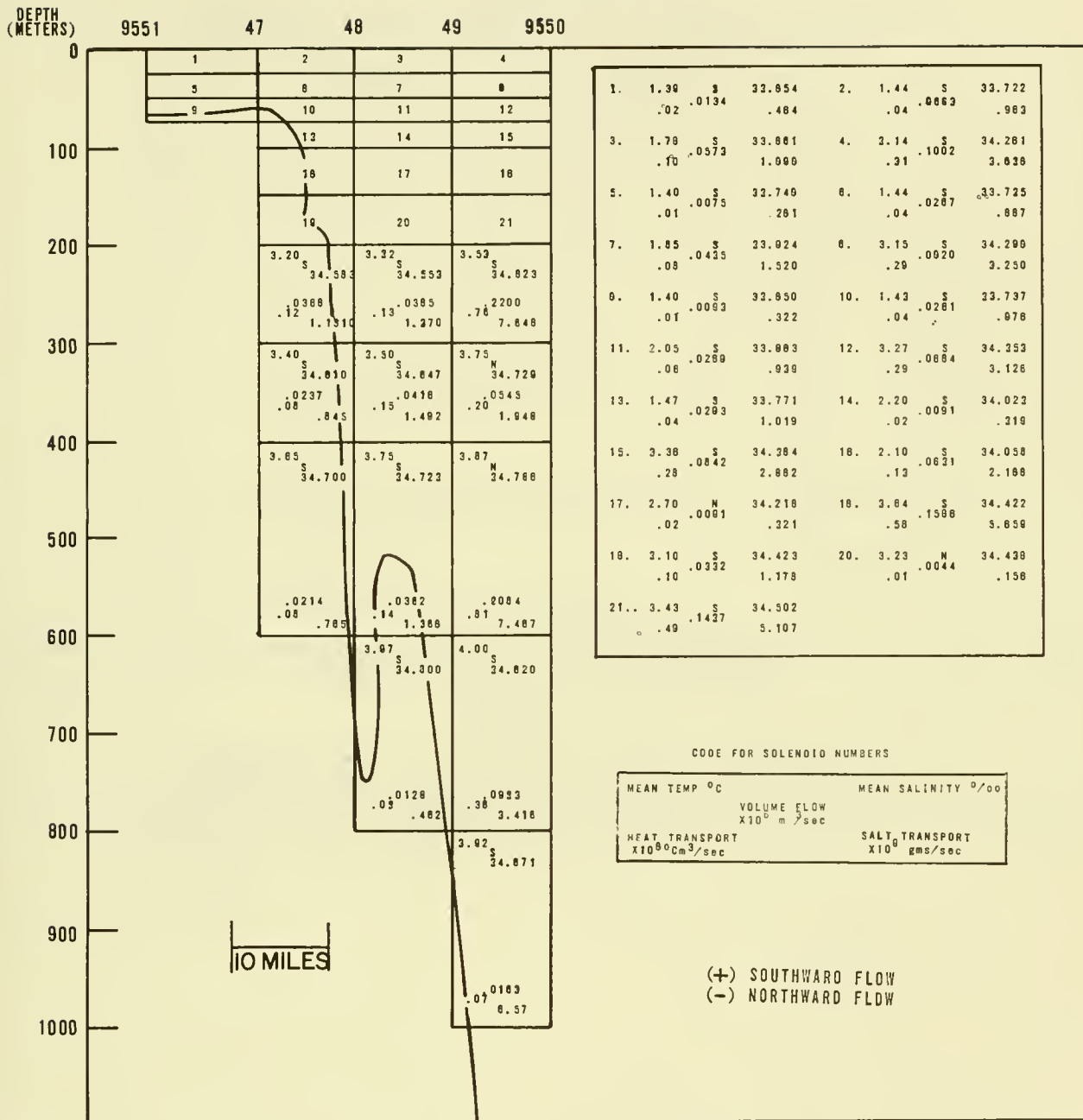


FIGURE 46. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 21 April 1966.

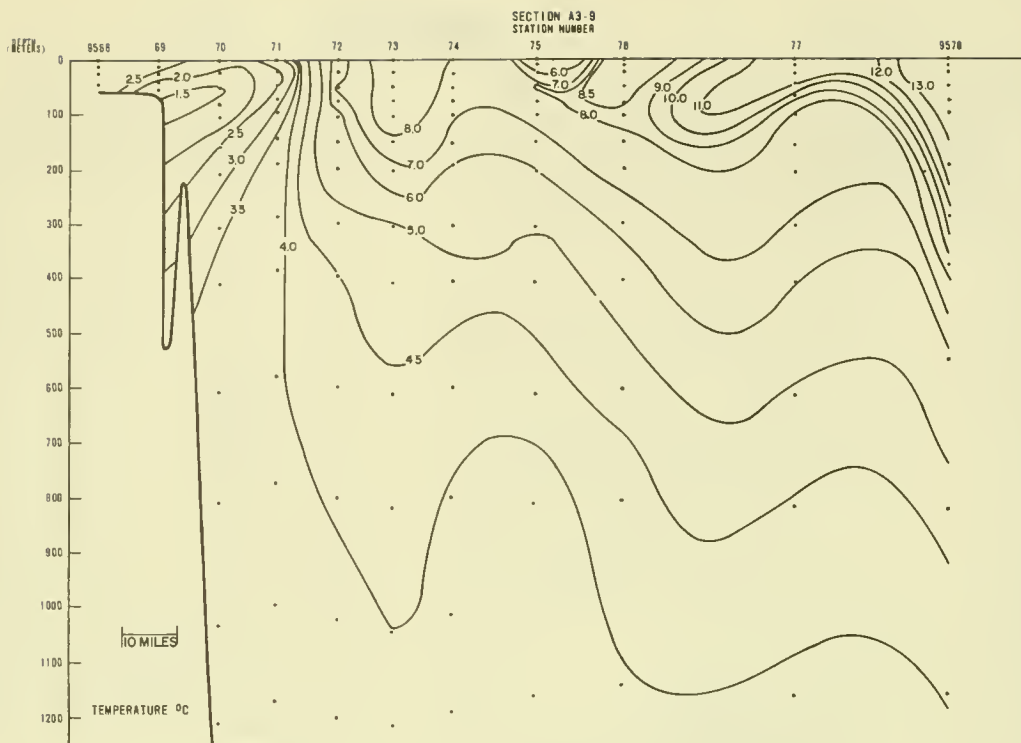


FIGURE 47. Vertical cross section of temperature ( $^{\circ}$ ) on North Atlantic Standard Monitoring Section A3 on 25-26 May 1966, prepared from data of USCGC EVERGREEN.

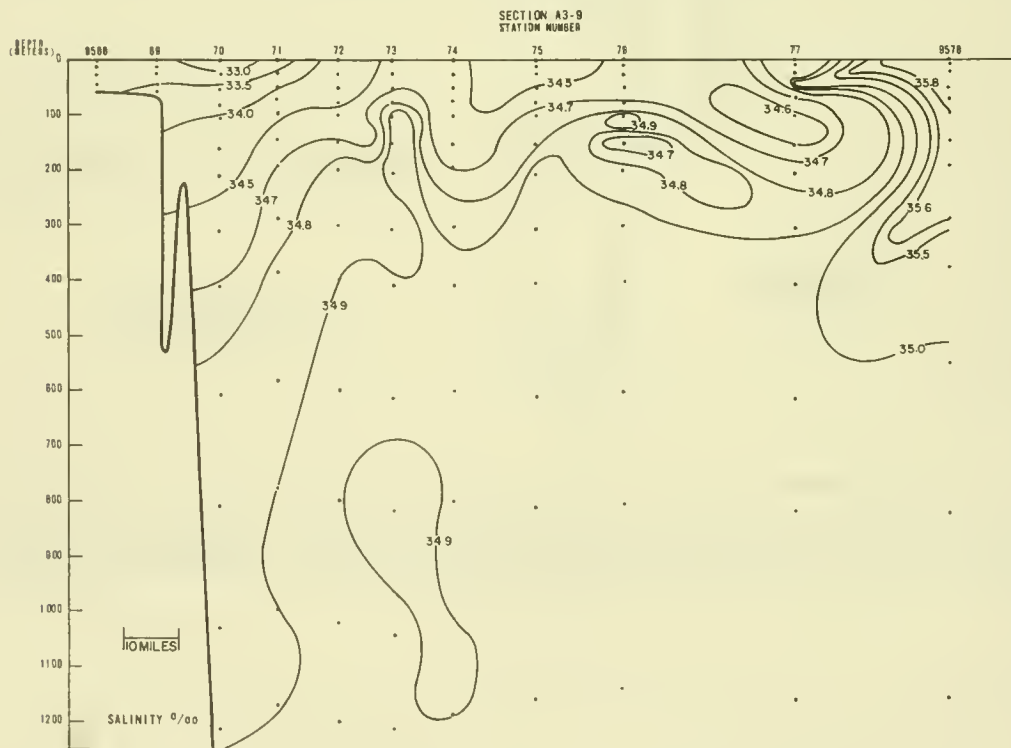
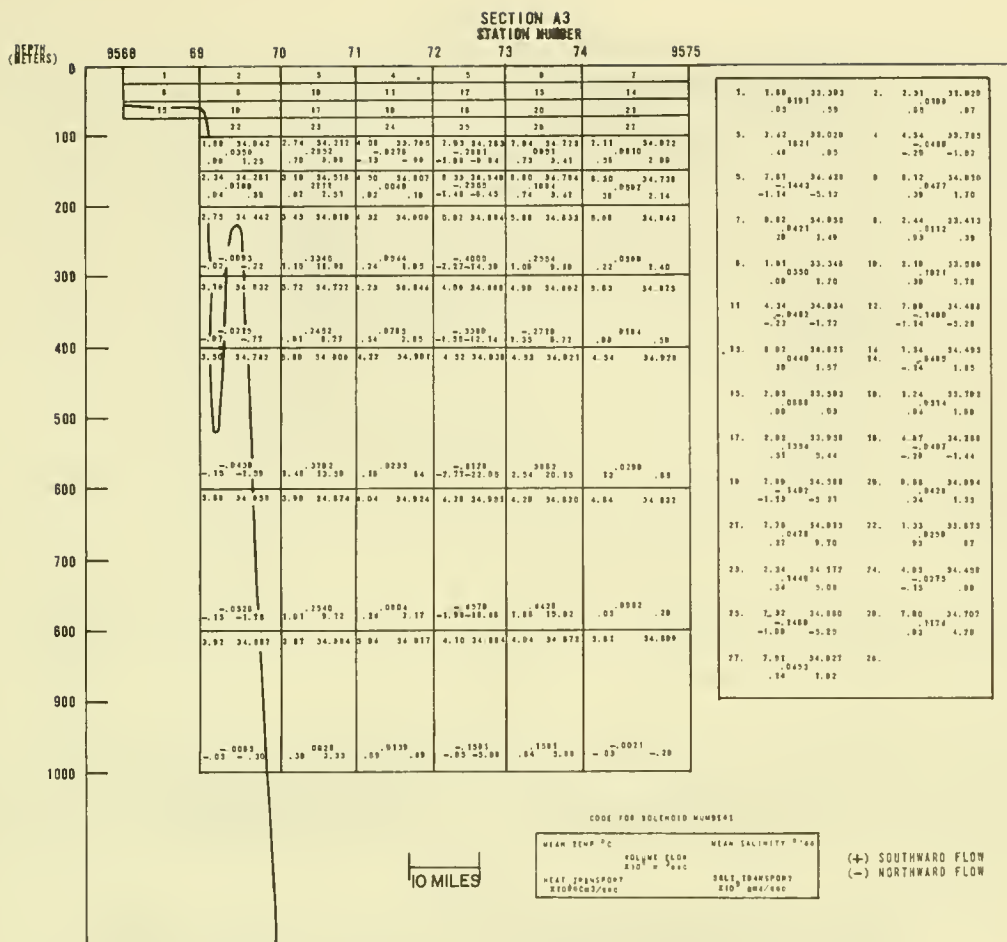


FIGURE 48. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 25-26 May 1966, prepared from data of USCGC EVERGREEN.



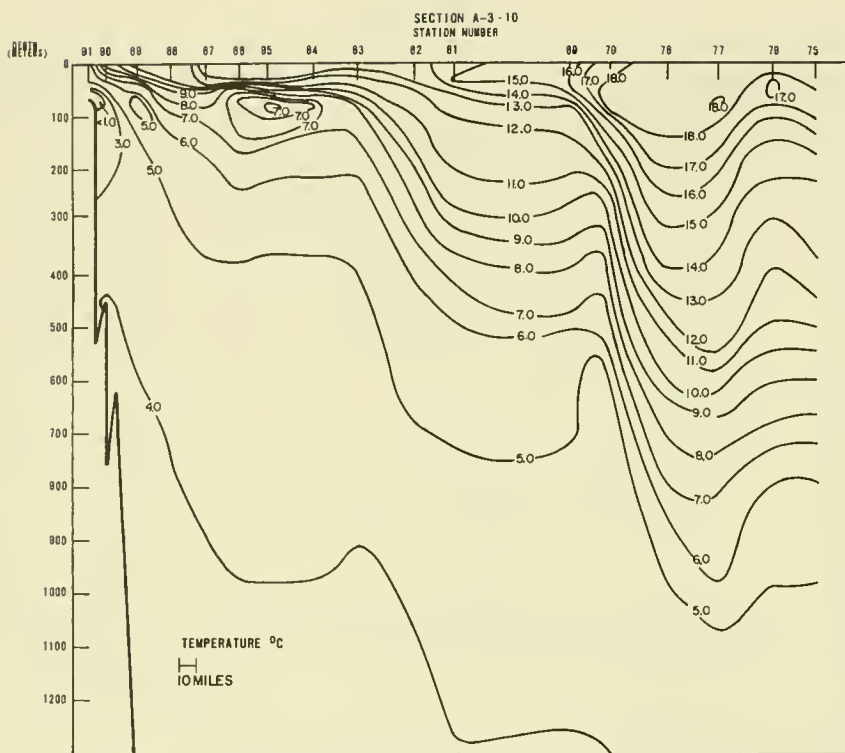


FIGURE 50. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A3 on 9-11 November 1966, prepared from data of USCGC EVERGREEN.

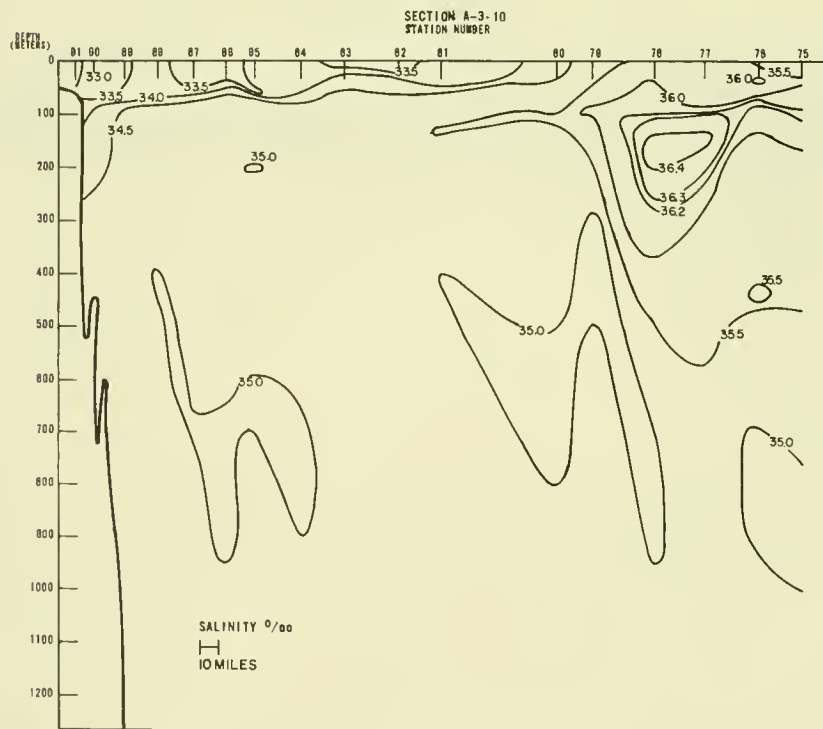


FIGURE 51. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A3 on 9-11 November 1966, prepared from data of USCGC EVERGREEN.

SECTION A-3-10  
STATION NUMBER

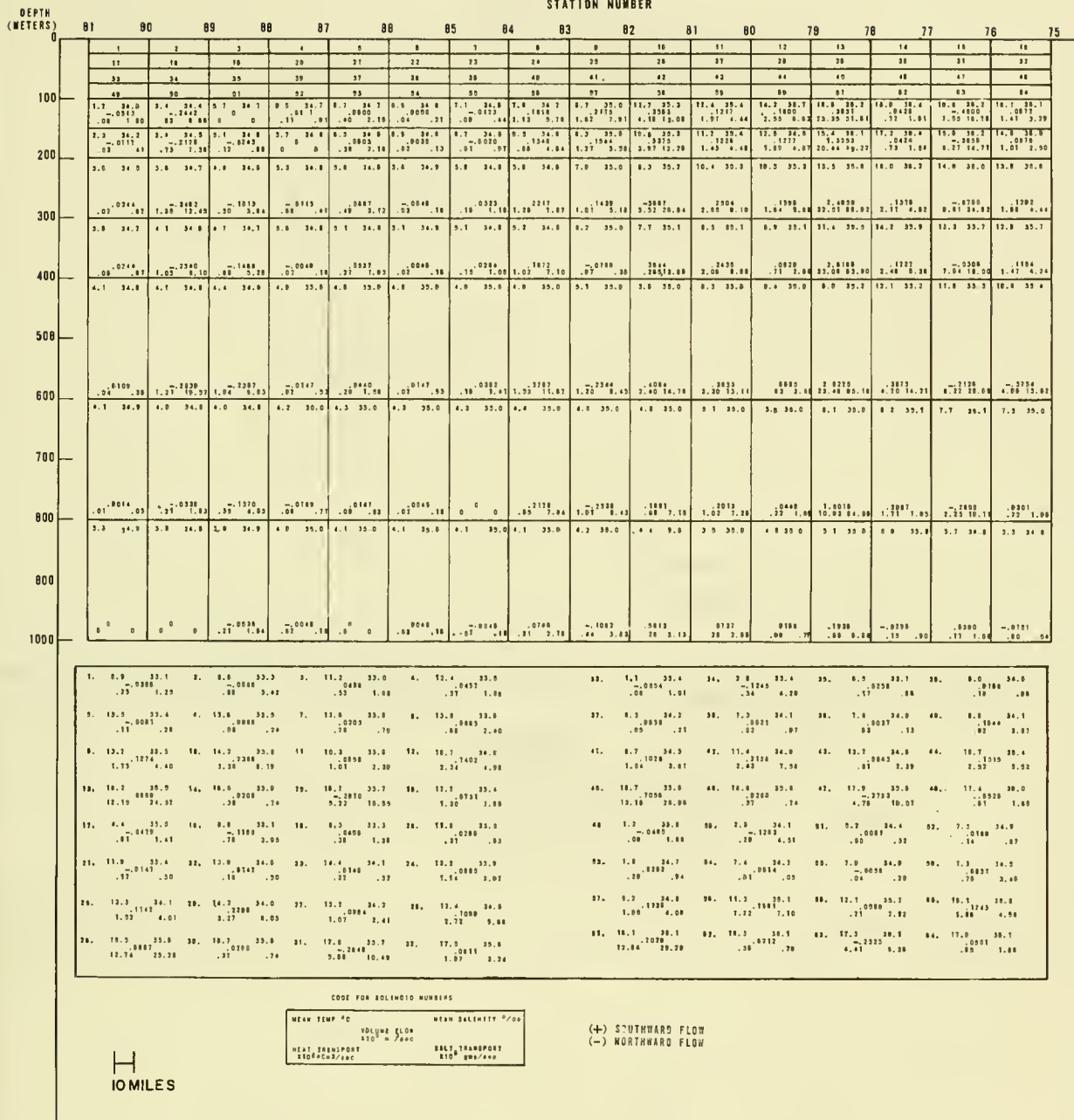


FIGURE 52. Solenoid division of North Atlantic Standard Monitoring Section A3 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 9-11 November 1966.

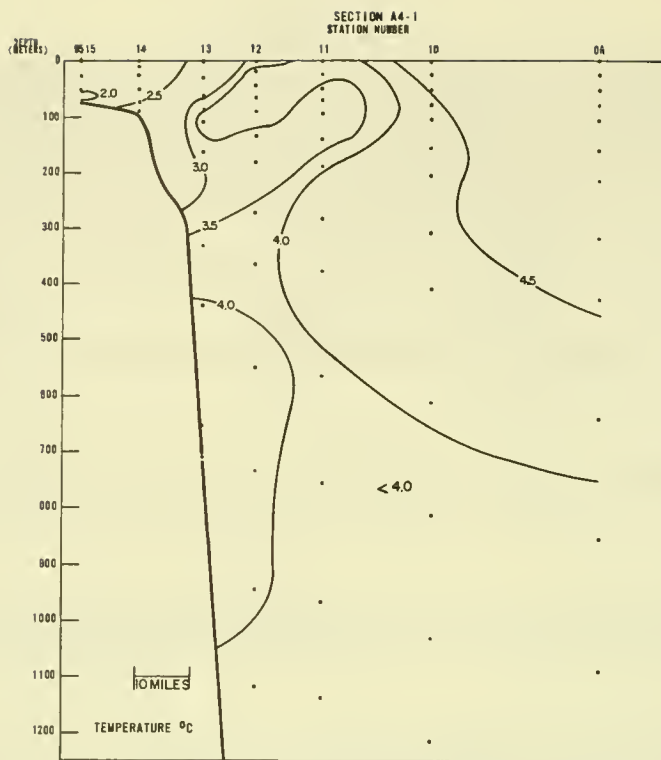


FIGURE 53. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A4 on 2-3 April 1966, prepared from data of USCGC EVERGREEN.

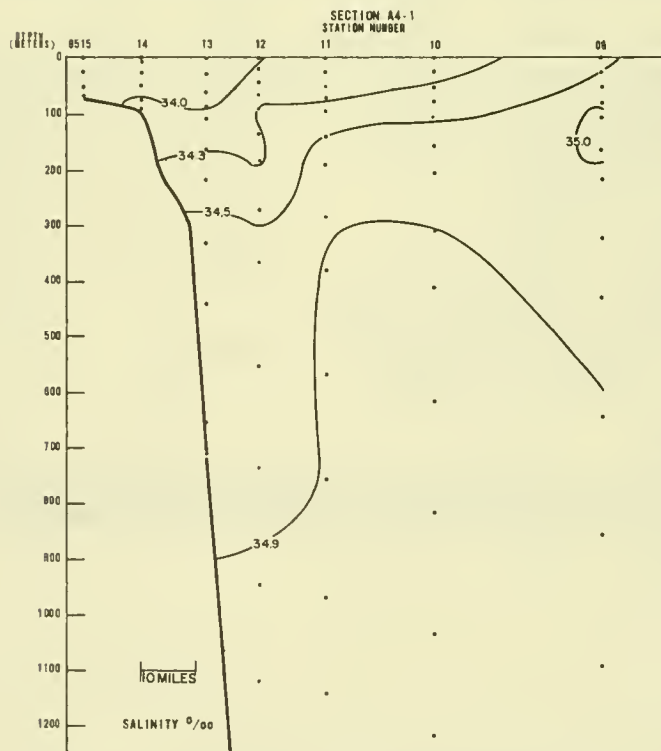


FIGURE 54. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A4 on 2-3 April 1966, prepared from data of USCGC EVERGREEN.

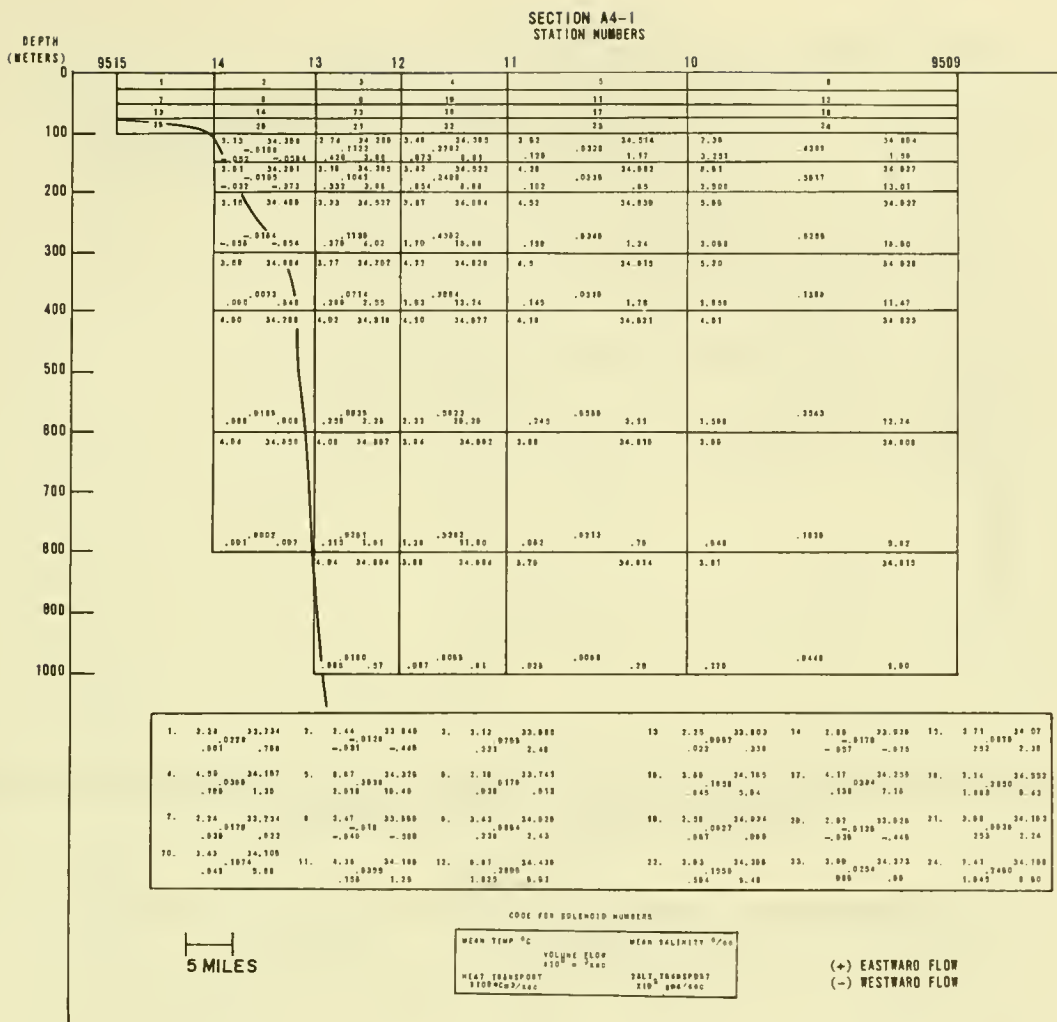


FIGURE 55. Solenoid division of North Atlantic Standard Monitoring Section A4 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 2-3 April 1966.



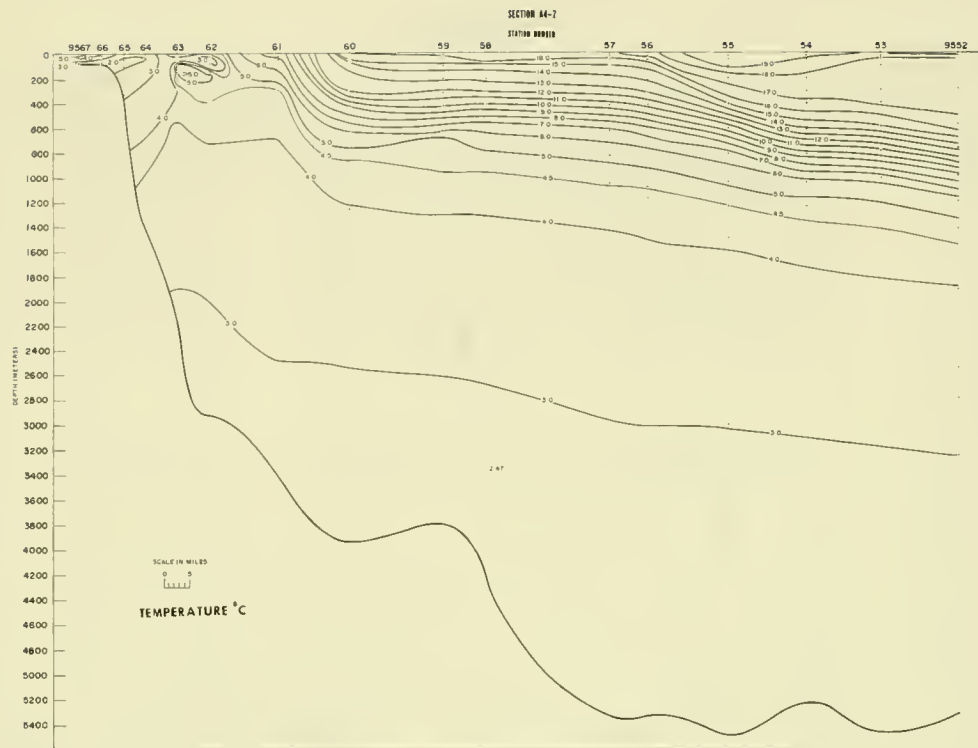


FIGURE 56. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A4 on 22-24 May 1966, prepared from data of USCGC EVERGREEN.

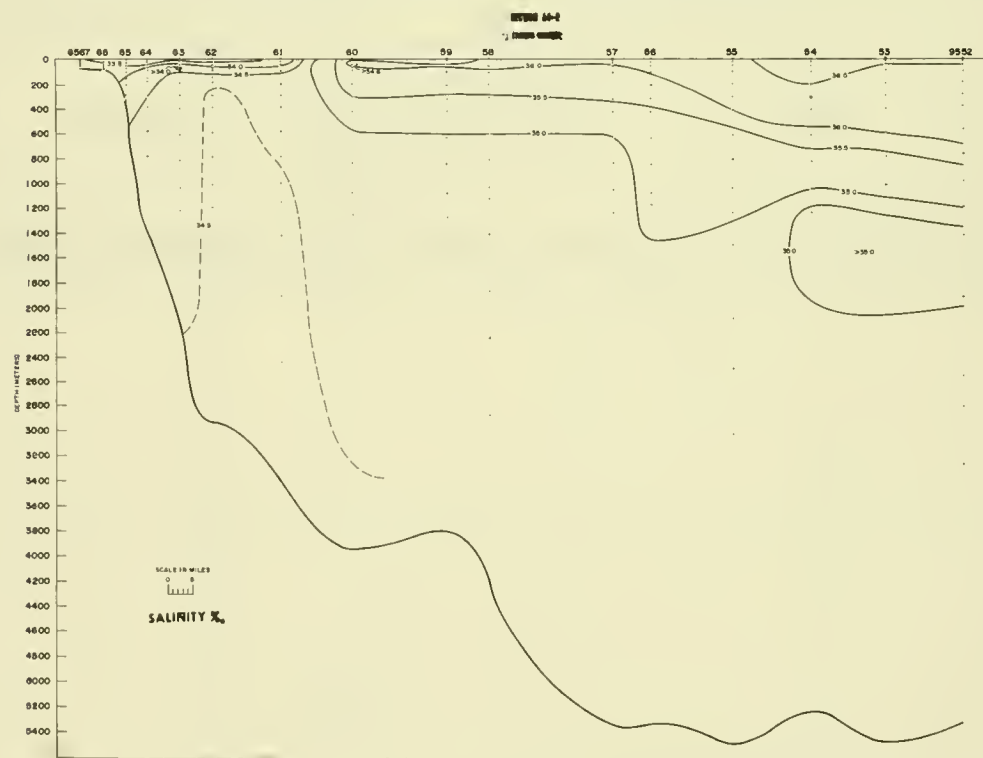


FIGURE 57. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A4 on 22-24 May 1966, prepared from data of USCGC EVERGREEN.

# SECTION A4-2 STATION NUMBER

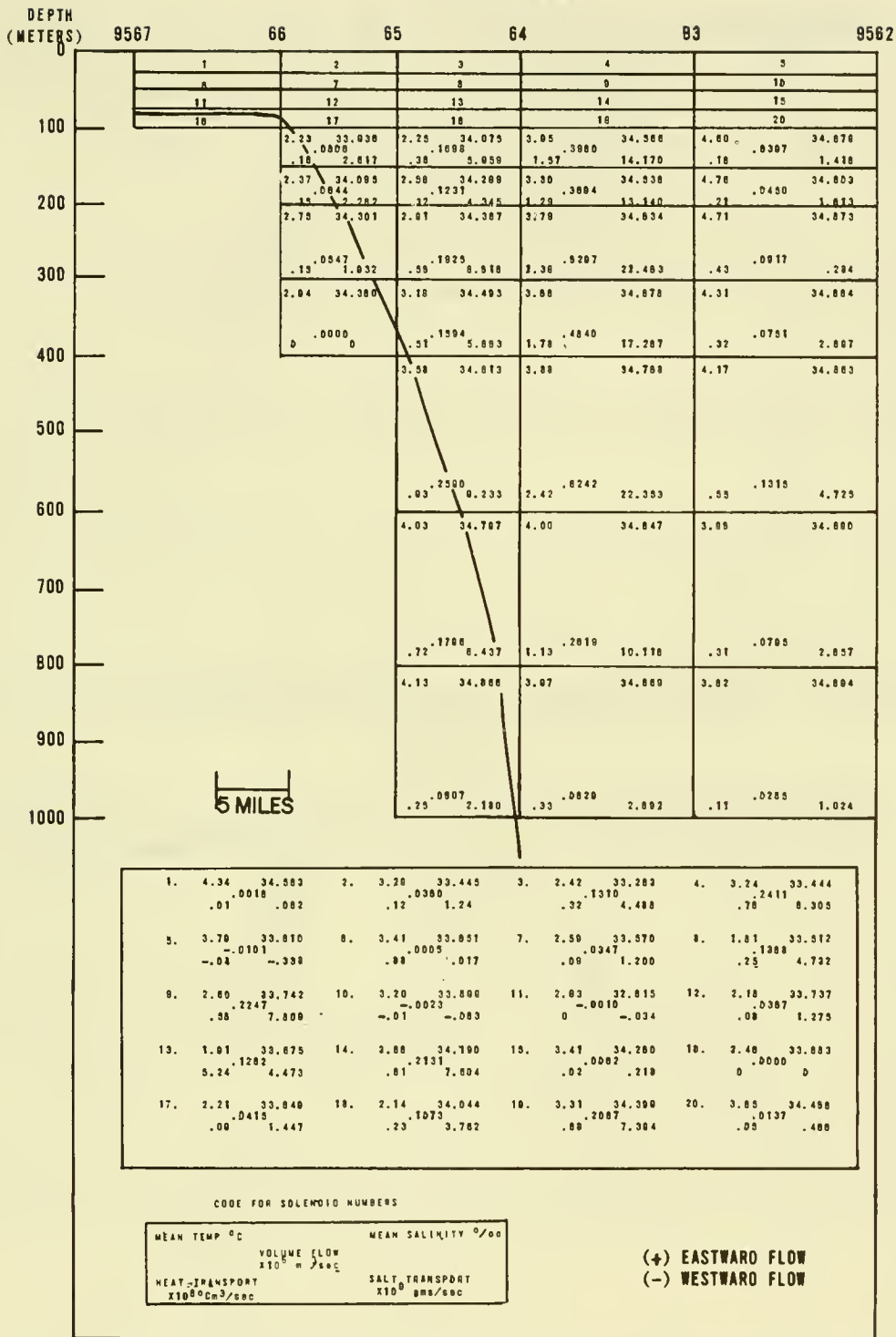


FIGURE 58. Solenoid division of North Atlantic Standard Monitoring Section A4 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 22-24 May 1966.

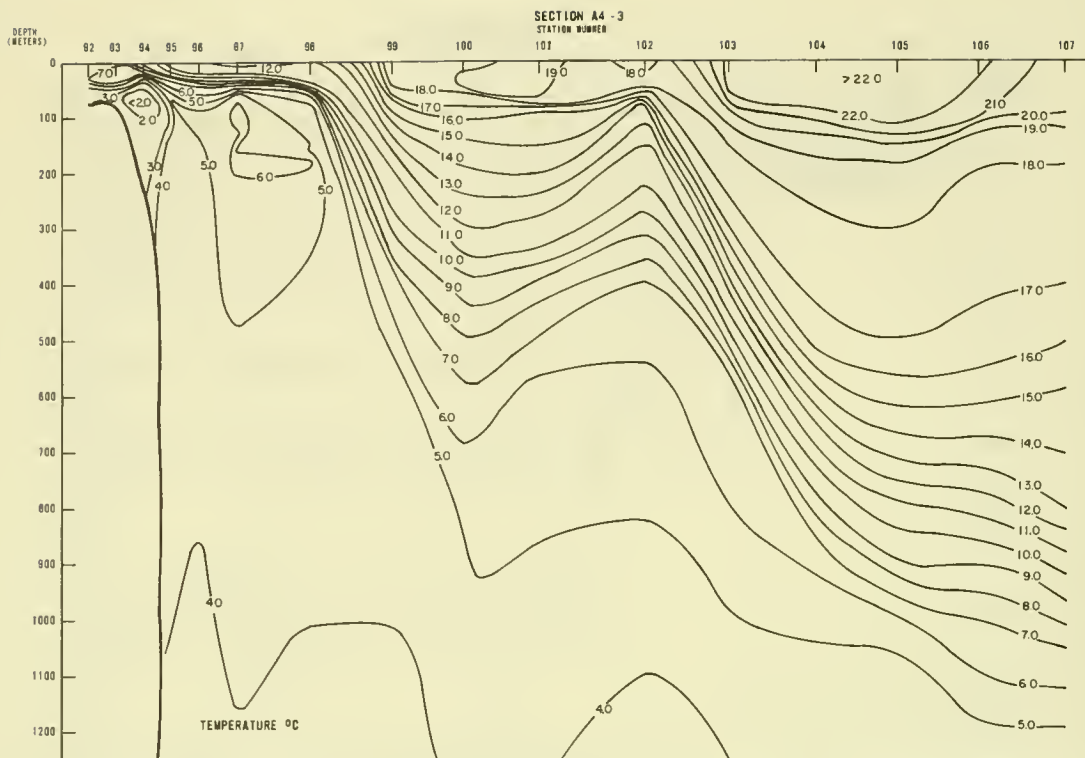


FIGURE 59. Vertical cross section of temperature (°C) on North Atlantic Standard Monitoring Section A4 on 11-13 November 1966, prepared from data of USCGC EVERGREEN.

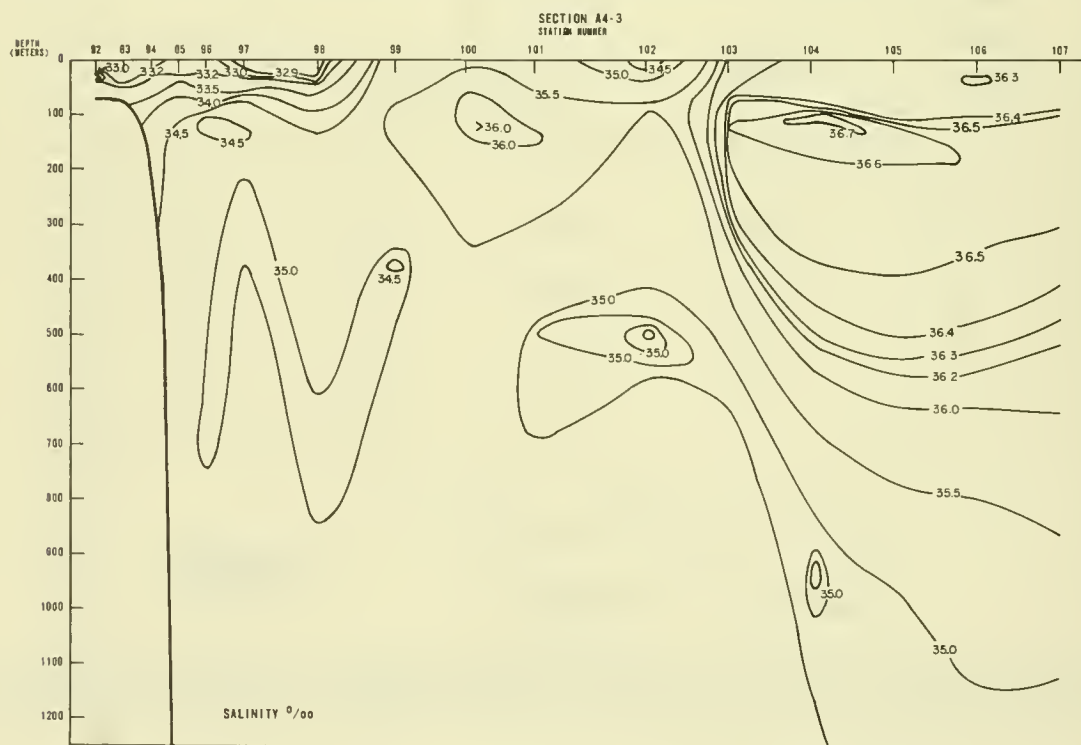


FIGURE 60. Vertical cross section of salinity (‰) on North Atlantic Standard Monitoring Section A4 on 11-13 November 1966, prepared from data of USCGC EVERGREEN.

DEPTH  
(METERS)

FIGURE 61. Solenoid division of North Atlantic Standard Monitoring Section A4 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 11-13 November 1966.

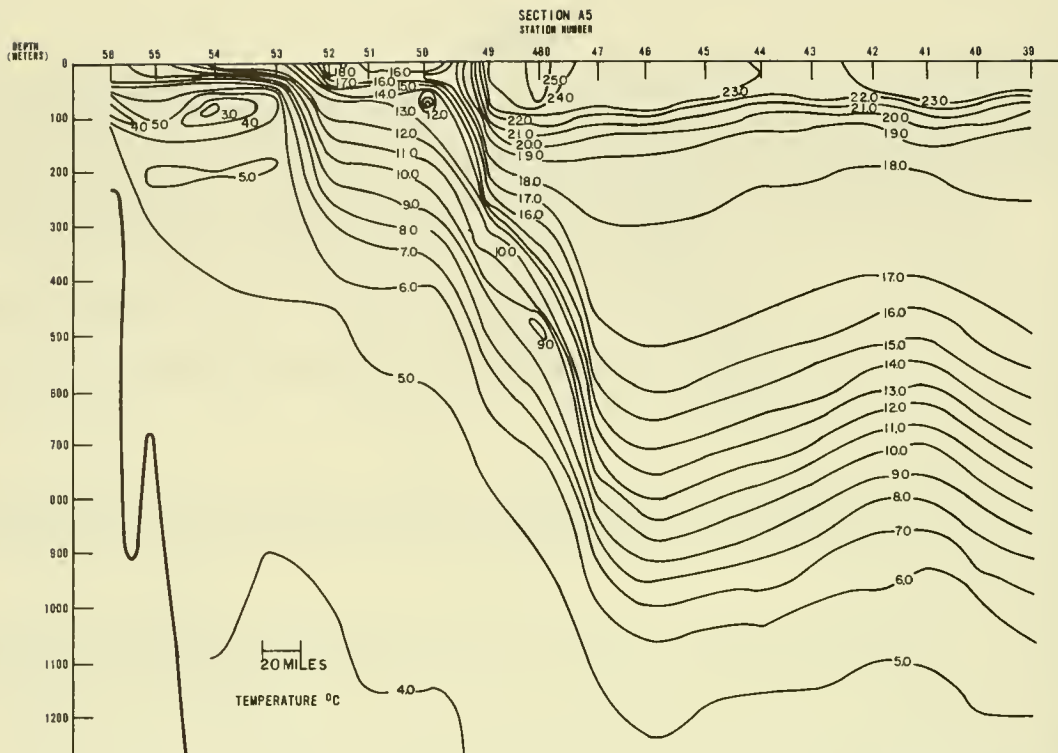


FIGURE 62. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A5 on 1-3 November 1966, prepared from data of USCGC EVERGREEN.

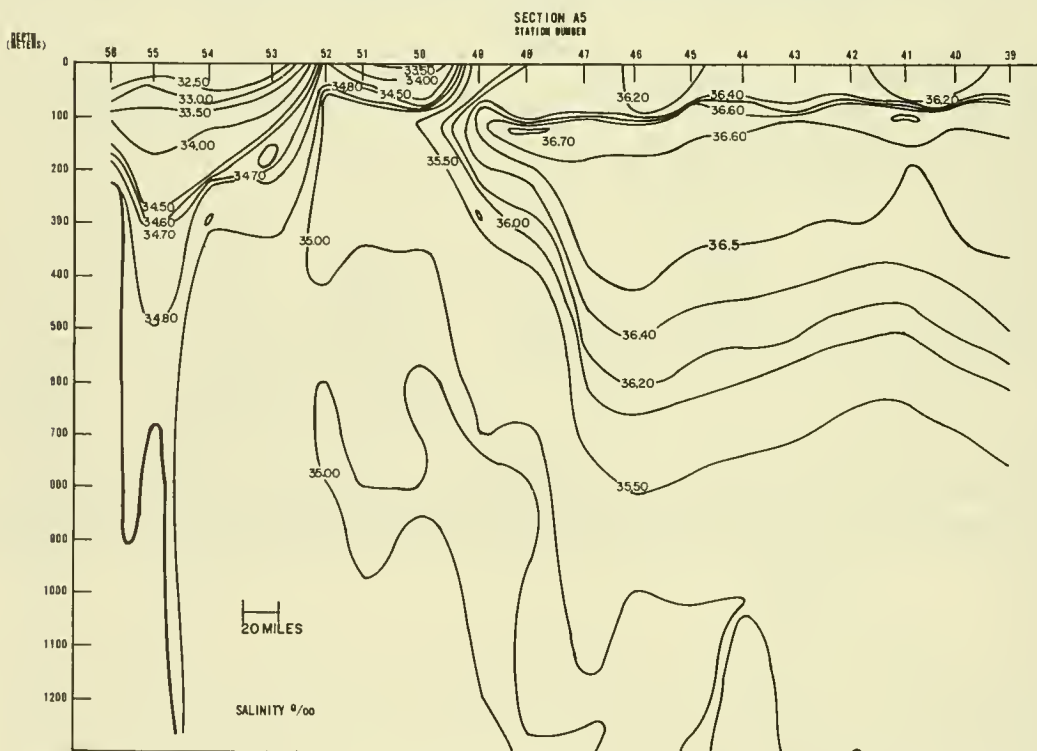


FIGURE 63. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A5 on 1-3 November 1966, prepared from data of USCGC EVERGREEN.

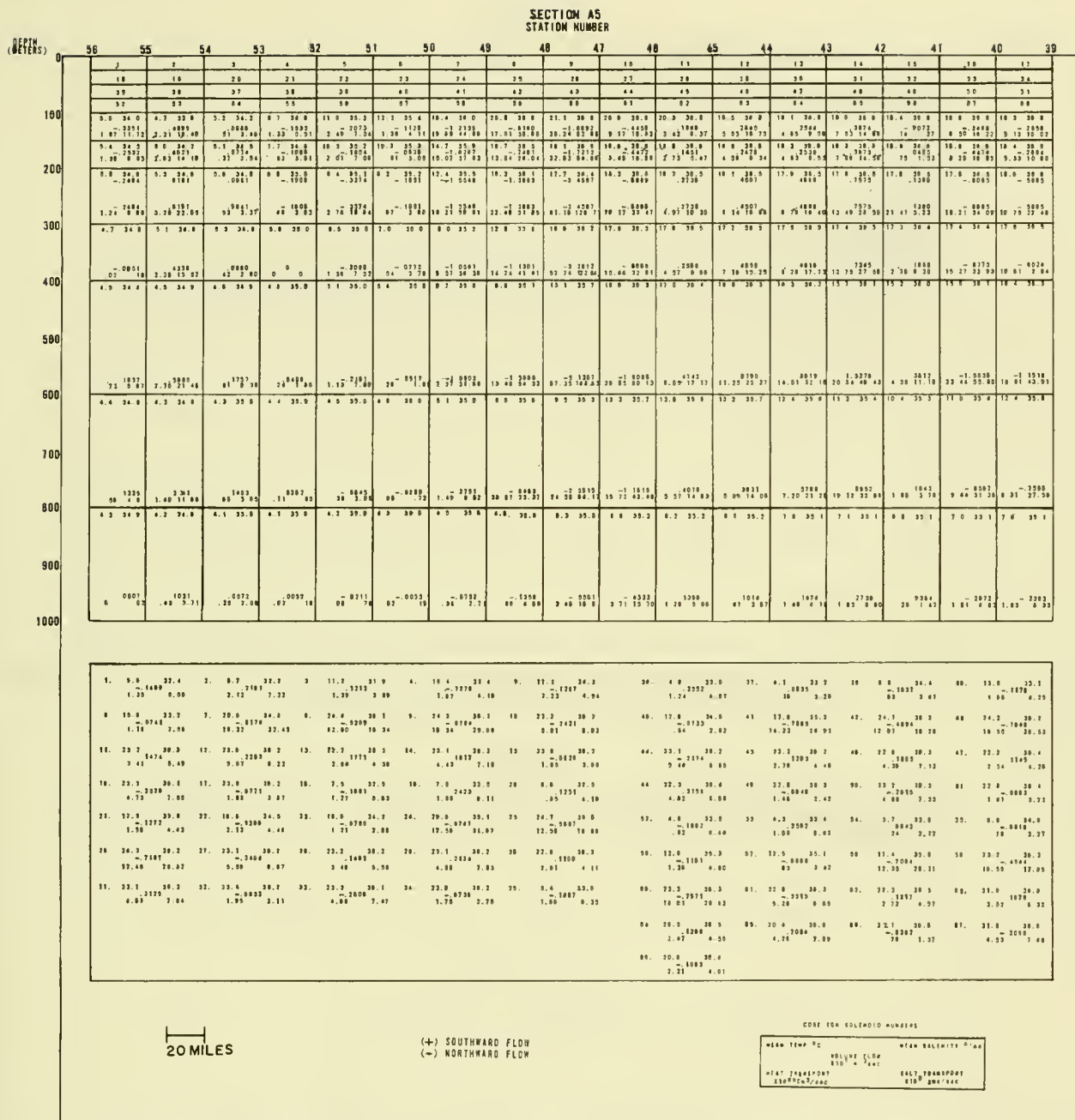


FIGURE 64. Solenoid division of North Atlantic Standard Monitoring Section A5 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC EVERGREEN, 1-3 November 1966.



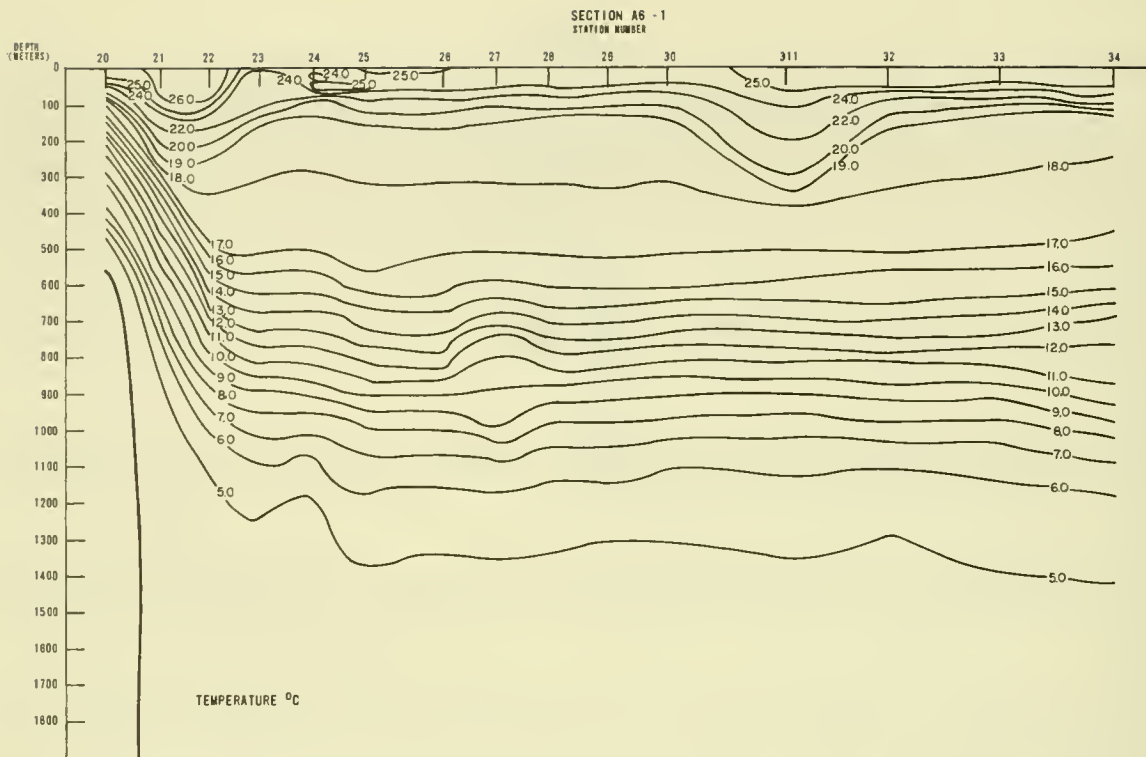


FIGURE 65. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A6 on 25-28 October 1966, prepared from data of USCGC EVERGREEN.

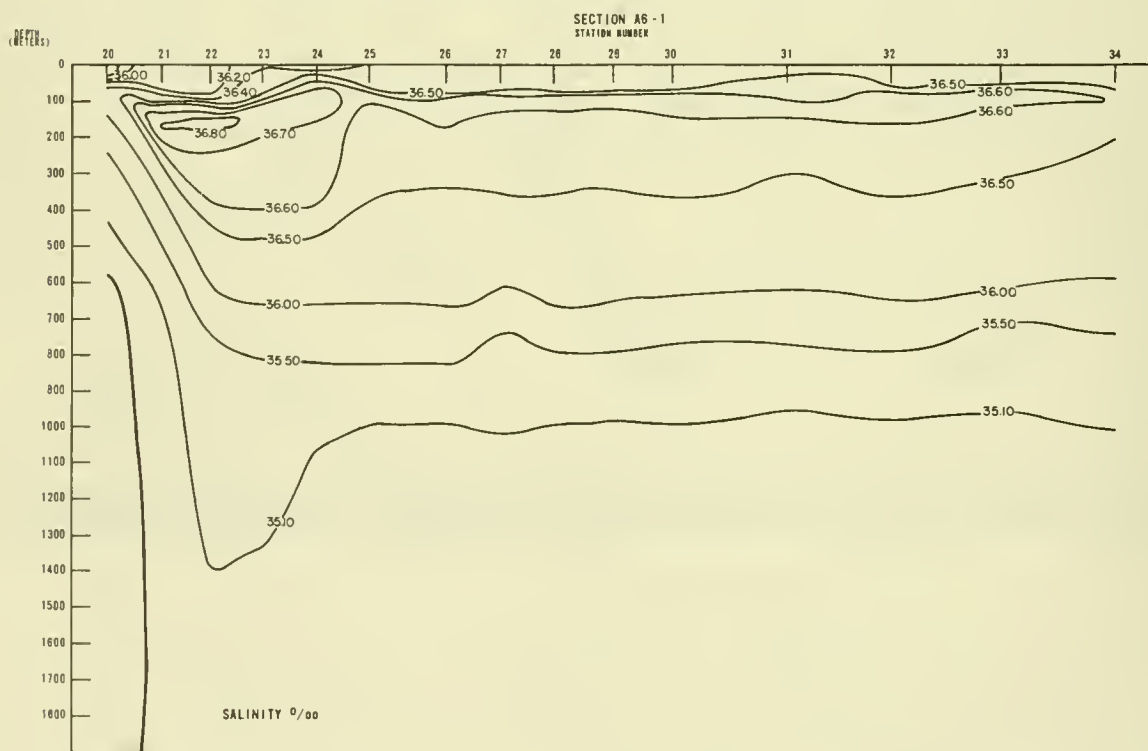
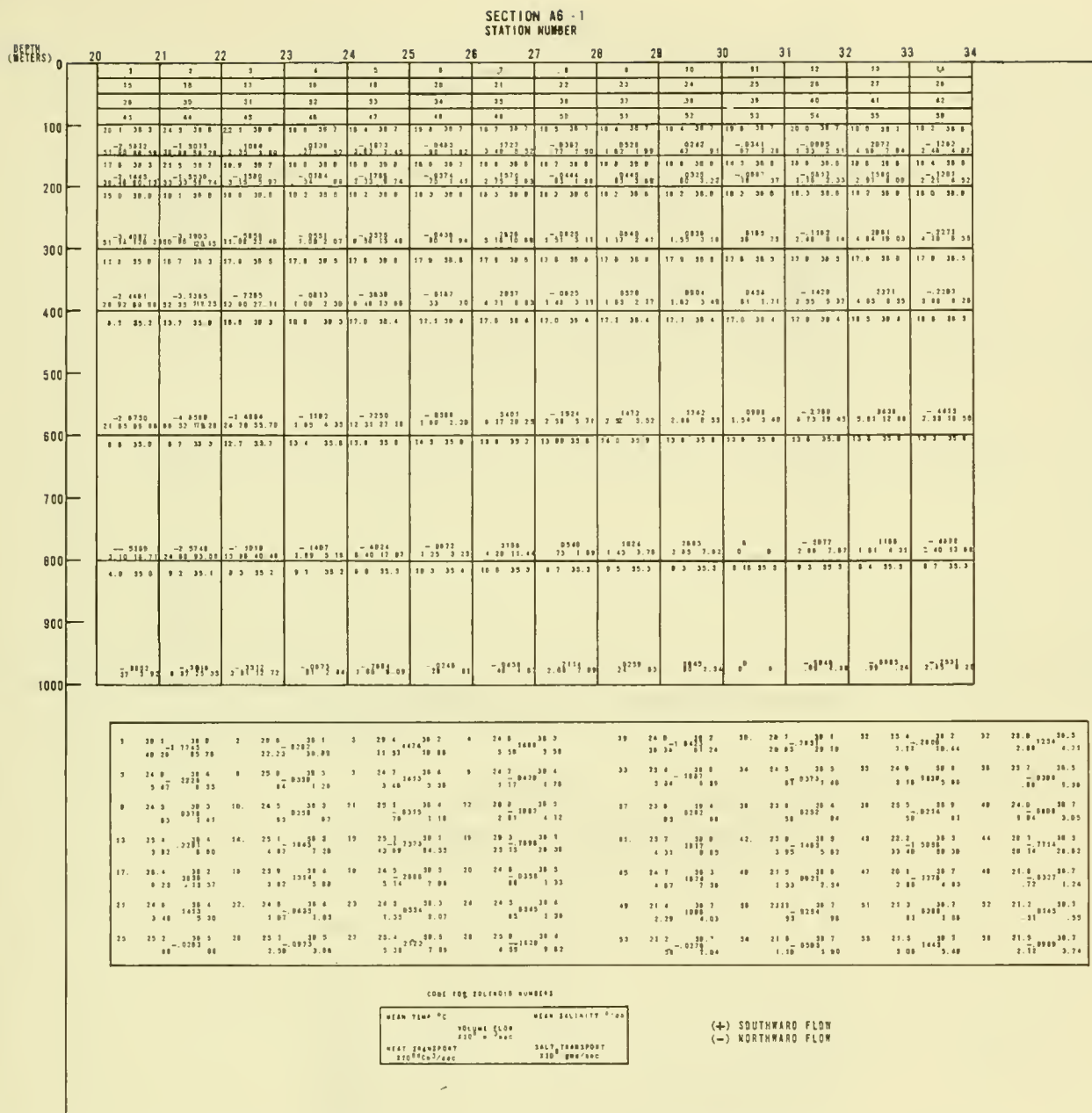


FIGURE 66. Vertical cross section of salinity ( $\text{‰}$ ) on North Atlantic Standard Monitoring Section A6 on 25-28 October 1966, prepared from data of USCGC EVERGREEN.



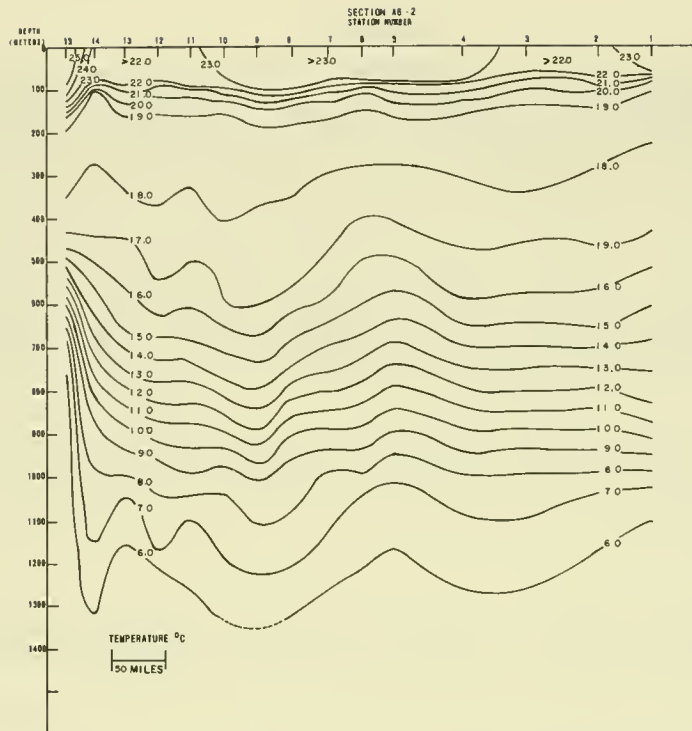


FIGURE 68. Vertical cross section of temperature ( $^{\circ}\text{C}$ ) on North Atlantic Standard Monitoring Section A6 on 19-22 November 1966, prepared from data of USCGC ROCKAWAY.

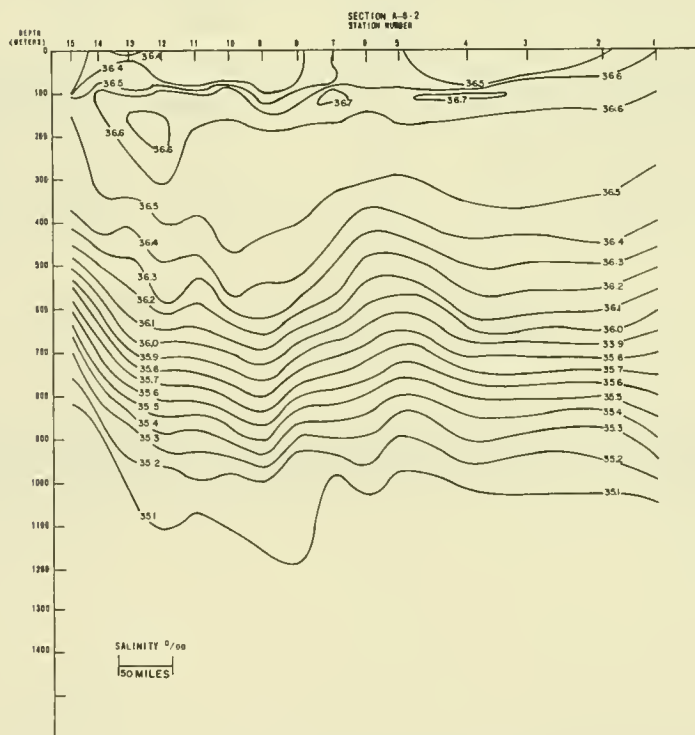


FIGURE 69. Vertical cross section of salinity (‰) in North Atlantic Standard Monitoring Section A6 on 19-22 November 1966, prepared from data of USCGC ROCKAWAY.

DEPTH  
(METERS)

FIGURE 70. Solenoid division of North Atlantic Standard Monitoring Section A6 including mean temperature, mean salinity, volume flow, heat and salt transport values from data of USCGC ROCKAWAY, 19-22 November 1966.

TABLE 1

Cruise No.	Ship	Date	No. of stations	NODC No.	U.S. Coast Guard Publication No.
<i>Section 1</i>					
A1-1	USCGC EVERGREEN	07/25-07/26/65	12	31-549	373-12
A1-2	USCGC EVERGREEN	06/06-06/07/66	12	31-8001	373-13
<i>Section 2</i>					
A2-1	USCGC HUMBOLDT	03/11-03/12/66	14	31-702	-----
A2-2	USCGC EVERGREEN	04/07-04/08/66	10	31-8001	373-13
A2-3	USCGC EVERGREEN	05/26-05/27/66	11	31-8001	373-13
A2-4	USCGC EVERGREEN	11/06-11/07/66	13	31-8007	-----
<i>Section 3</i>					
A3-1	USCGC MENDOTA	11/23-11/24/64	7	31-223	-----
A3-2	USCGC INGHAM	01/28-01/29/65	7	31-223	-----
A3-3	USCGC DUANE	02/14-02/15/66	11	31-792	-----
A3-4	USCGC HUMBOLDT	03/09-03/10/66	11	31-702	-----
A3-5	USCGC EVERGREEN	04/04-04/05/66	9	31-8001	373-13
A3-6	USCGC EVERGREEN	04/16-04/17/66	6	31-8001	373-13
A3-7	USCGC EVERGREEN	04/18-04/19/66	6	31-8001	373-13
A3-8	USCGC EVERGREEN	04/21/66	4	31-8001	373-13
A3-9	USCGC EVERGREEN	05/25-05/26/66	11	31-8001	373-13
A3-10	USCGC EVERGREEN	11/09-11/11/66	17	31-8007	-----
<i>Section 4</i>					
A4-1	USCGC EVERGREEN	04/02-04/03/66	7	31-8001	373-13
A4-2	USCGC EVERGREEN	05/22-05/24/66	16	31-8001	373-13
A4-3	USCGC EVERGREEN	11/11-11/13/66	16	31-8007	-----
<i>Section 5</i>					
A5-1	USCGC EVERGREEN	11/01-11/03/66	18	31-8007	-----
<i>Section 6</i>					
A6-1	USCGC EVERGREEN	10/25-10/28/66	15	31-8007	-----
A6-2	USCGC ROCKAWAY	11/19-11/22/66	15	31-1061	-----

TABLE 2.—List of standard depths (meters) for electronically obtained serial data

0000	0100	0400	1000	1750	6000
0010	0125	0500	1100	2000	7000
0020	0150	0600	1200	2500	8000
0030	0200	0700	1300	3000	9000
0050	0250	0800	1400	4000	
0075	0300	0900	1500	5000	



# Explanation of Oceanographic Station Data

## Description of Entries, Units, and Codes on NODC Station Listing

### 1. Surface Observations

#### Entry

#### Description of Field

NODC REF. ID. NO.-----	NODC reference identity number.
COUNTRY CODE.-----	Indicates nationality of the institute or agency conducting the survey or expedition.
CRUISE NUMBER.-----	A reference number assigned by NODC for storage-retrieval purposes. NODC Publication C-1, <i>Reference Sources of Oceanographic Station Data</i> , gives complete bibliographic and other pertinent information for each cruise.
SHIP CODE.-----	Alphabetic representation of ship's name (or ICES numeric ship code).
LATITUDE.-----	Degrees, minutes, and tenths of minutes, N. or S.
LONGITUDE.-----	Degrees, minutes, and tenths of minutes, E. or W.
DRIFT INDICATOR.-----	The letter D appears in this column if extensive drift occurred while on station.
MARSDEN SQUARE:	
10°.-----	Marsden square number according to the Marsden square system.
1°.-----	The 1° square number according to the Marsden square system.
STATION TIME:	
(GMT).-----	Date and time given by the originator (GMT).
MONTH.-----	Month (GMT).
DAY.-----	Day (GMT).
HR. 1/10.-----	GMT to nearest tenth of an hour.
YEAR.-----	Year.
ORIGINATOR'S	
CRUISE NUMBER.	Alphabetic or alpha-numeric designator as assigned by the originator. If the year of the cruise forms part of the cruise numbering system, the year digits are found in preceding field.
STATION NUMBER.-----	Originator's station number or designator.
DEPTH TO BOTTOM.-----	Corrected or uncorrected sounding depth in meters.
MAX. DEPTH OF	
SAMPLES.	Depth of deepest sample in hundreds of meters to nearest hundred-meter interval.
WAVE OBSERVATIONS:	
DIR.-----	Direction from which the dominant waves are coming, in tens of degrees, according to WMO Code 0885.
HGT.-----	Height of dominant waves according to WMO Code 1555.
PER.-----	Period of dominant waves according to WMO Code 3155.
SEA AMT.-----	Sea amount (sea state) according to WMO Code 3700 (preceded by the letter A).
WEATHER CODE.-----	If preceded by the letter X, weather according to WMO Code 4501. A numeric two-digit entry indicates weather according to WMO Code 4677.
*INSTR./CLOUD.-----	This field is used either for recording instrument code when electronically obtained data are being reported, or for reporting cloud type and cloud amount when conventional Nansen cast data are being reported.
*INSTR.-----	A two character code representing instrument package of system.
TYPE.-----	Cloud type according to WMO Code 0500.
AMT.-----	Cloud amount according to WMO Code 2700.
NODC STATION	
NUMBER.	Assigned by NODC for data storage and retrieval purposes. The NODC Reference Identity and Station number combined, uniquely define each station in the NODC archives.
*DT/*S <sup>U</sup> / <sub>D</sub> .-----	This indicator specifies that the reported data have been obtained electronically rather than by Nansen-type casts. U (up) and D (down) are cast indicators for electronically obtained serial data and specify that the data were taken while hoisting or lowering respectively.
WATER COLOR.-----	Water color according to Forel-Ule Code.
TRANS. (m).-----	Water transparency in meters as determined by Secchi disc.
WIND:	
DIR.-----	Direction from which wind is blowing in tens of degrees, according to WMO Code 0877.
SPEED OR FORCE.-----	If preceded by letter S, wind speed in knots; if preceded by letter F, wind force in Beaufort code.
BAROMETER (mbs).-----	Barometric pressure in millibars; tens, units, and tenths places only.



AIR TEMPERATURE °C:

DRY BULB-----	Dry bulb air temperature in degrees centigrade, to tenths.
WET BULB-----	Wet bulb air temperature in degrees centigrade, to tenths.
VIS CODE-----	Visibility according to WMO Code 4300.
NUMBER OBS, LEVEL----	The number of observed levels associated with the station.
SPECIAL OBSERVATIONS.	Entries in this space vary with individual cruises or stations. Information concerning entries in this field can be requested from the NODC.

2. A complete description of the codes can be found in NODC publication M-2 (Rev. August 1964), "Processing Physical and Chemical Data from Oceanographic Stations."

TABLE I. Observed and interpolated oceanographic data taken by USCGC MENDOTA, 23-24 November 1964, and USCGC INGHAM, 28-29 January 1965, on North Atlantic Standard Monitoring Section 3; prepared from NODC listing No. 31-223.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT HOURS	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	223	ME	4444 N	04933 W		149	49	11	23	205	1964	LC1	001	0052	00	31	2		X1	8	5	0001
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
								29	519	250	011	-006	7	03								
MESSENGER TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ OYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH				
			STD	0000	0479	3283	2601	0020104		0000	14673											
205			OBS	0000	0479	32834	2601				14673											
			STD	0010	0479	3284	2601	0020063		0020	14674											
			STD	0020	0478	3285	2602	0020015		0040	14676											
205			OBS	0025	0478	32850	2602				14676											
			STD	0030	0462	3287	2605	0019684		0060	14671											
			STD	0050	0347	3304	2630	0017330		0097	14628											
205			OBS	0050	0347	33038	2630				14628											
REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT HOURS	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	223	ME	44385N	04922 W		149	49	11	23	220	1964	LC1	002	0055	01	30	2		X1	7	4	0002
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
								30	514	260	017	-006	7	03								
MESSENGER TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ OYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH				
			STD	0000	0482	3283	2600	0020187		0000	14674											
220			OBS	0000	0482	32827	2600				14674											
			STD	0010	0480	3283	2600	0020180		0020	14675											
			STD	0020	0479	3283	2600	0020179		0040	14676											
220			OBS	0025	0478	32826	2600				14676											
			STD	0030	0455	3286	2605	0019688		0060	14668											
			STD	0050	0286	3312	2642	0016186		0096	14603											
224			OBS	0054	0238	33189	2652				14583											
REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT HOURS	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1'	MO	DAY		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	223	ME	44325N	04855 W		149	48	11	24	019	1964	LC1	003	0344	03	28	2		X1	7	4	0003
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbars)	DRY BULB	WET BULB										
								26	508	260	017	-011	7	08								
MESSENGER TIME HR 1/10		CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ OYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH				
			STD	0000		3343																
019			OBS	0000		33430																
			STD	0010		3343																
			STD	0020		3343																
019			OBS	0025		33433																
			STD	0030		3359																
019			OBS	0044	0124	33934	2720				14542											
			STD	0050	0128	3398	2723	0008504			14545											
019			OBS	0068	0141	3340Q	26760															
			STD	0075	0146	3414	2735	0007417			14559											
019			OBS	0091	0157	34216	2740				14568											
			STD	0100	0162	3423	2741	0006854			14572											
			STD	0125	0174	3426	2742	0006722			14582											
019			OBS	0139	0181	34276	2743				14587											
			STD	0150	0186	3428	2743	0006670			14591											
019			OBS	0188	0202	34303	2743				14605											
			STD	0200	0207	3432	2744	0006552			14609											
			STD	0250	0224	3442	2751	0005960			14626											
019			OBS	0288	0234	34528	2759				14638											

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	223	ME	4431 N	04841 W		149	48	11	24	047	1964	LC1	004	2195	11	28	2		X1	7	4	0004	
						WATER		WIND		AIR TEMP. °C				SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
									26	S08	280	011	-011	7	12								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>3</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	SS C				
		STD	0000	0446	3415	2709		0009842		0000	14677												
	047	OBS	0000	0446	34154	2709					14677												
		STD	0010	0453	3416	2709		0009865		0010	14681												
		STD	0020	0460	3417	2709		0009880		0020	14686												
	047	OBS	0024	0462	34174	2709					14687												
		STD	0030	0469	3420	2710		0009768		0030	14692												
	047	OBS	0049	0473	34323	2719					14698												
		STD	0050	0471	3433	2720		0008835		0048	14697												
	047	OBS	0074	0435	34529	2740					14689												
		STD	0075	0434	3454	2741		0006894		0068	14689												
	047	OBS	0098	0409	34664	2753					14684												
		STD	0100	0407	3467	2754		0005665		0084	14684												
		STD	0125	0392	3473	2760		0005087		0097	14682												
	047	OBS	0147	0382	34766	2764					14682												
		STD	0150	0382	3477	2764		0004709		0109	14683												
	047	OBS	0197	0376	34815	2769					14688												
		STD	0200	0375	3482	2769		0004309		0132	14689												
		STD	0250	0366	3482	2770		0004263		0153	14693												
	047	OBS	T0297	0364	34843	2772					14700												
		STD	0300	0365	3485	2772		0004073		0174	14701												
		STD	0400	0383	3491	2776		0003880		0214	14726												
	047	OBS	0400	0383	34913	2776					14726												
		STD	0500	0373	3490	2776		0003942		0253	14738												
		STD	0600	0364	3489	2776		0003992		0293	14751												
	047	OBS	0606	0363	34893	2776					14752												
		STD	0700	0360	3489	2776		0004046		0333	14766												
		STD	0800	0357	3489	2777		0004105		0374	14781												
	053	OBS	T0897	0354	34892	2777					14796												
		STD	0900	0354	3489	2777		0004154		0415	14797												
		STD	1000	0351	3489	2777		0004202		0457	14812												
		STD	1100	0349	3489	2777		0004259		0499	14828												
	053	OBS	1122	0348	34892	2777					14831												

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	223	ME	4423 N	04757 W		149	47	11	24	088	1964	LC1	005	3383	12	28	2		X1	5	5	0005	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB											
									30	505	280	011	-017	7	13								
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH	°C					
		STD	0000	0740	3337	2610	0019208		0000	14785													
088		OBS	0000	0740	33367	2610				14785													
		STD	0010	0740	3337	2610	0019228		0019	14787													
		STD	0020	0741	3337	2610	0019256		0038	14788													
088		OBS	0024	0741	33366	2610				14789													
		STD	0030	0741	3337	2610	0019277		0058	14790													
088		OBS	0049	0742	33364	2609				14794													
		STD	0050	0729	3341	2615	0018816		0096	14789													
088		OBS	0074	0560	34189	2698				14736													
		STD	0075	0567	3421	2699	0010844		0133	14739													
088		OBS	0098	0687	34567	2712				14796													
		STD	0100	0688	3458	2713	0009628		0158	14796													
		STD	0125	0694	3469	2720	0008935		0182	14805													
088		OBS	0148	0700	34760	2725				14812													
		STD	0150	0695	3476	2726	0008468		0203	14810													
088		OBS	0198	0599	34764	2739				14780													
		STD	0200	0595	3476	2739	0007215		0243	14779													
		STD	0250	0520	3477	2749	0006294		0276	14756													
088		OBS	T0297	0479	34783	2755				14747													
		STD	0300	0479	3479	2755	0005759		0307	14748													
088		OBS	0398	0485	34935	2766				14769													
		STD	0400	0485	3494	2767	0004818		0359	14769													
		STD	0500	0465	3496	2771	0004550		0406	14778													
		STD	0600	0445	3497	2774	0004352		0451	14786													
088		OBS	0601	0445	34972	2774				14786													
		STD	0700	0431	3497	2775	0004288		0494	14797													
		STD	0800	0417	3497	2777	0004222		0537	14808													
088		OBS	T0805	0416	34968	2777				14808													
		STD	0900	0399	3495	2777	0004251		0579	14816													
		STD	1000	0384	3494	2778	0004237		0621	14827													
088		OBS	1010	0383	34938	2778				14828													
		STD	1100	0374	3493	2778	0004278		0664	14839													
		STD	1200	0367	3493	2779	0004279		0707	14853													
088		OBS	T1215	0366	34928	2779				14855													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DATE INDIC	MARDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES	TYPE	AMT	NODC STATION NUMBER	
CITY CODE	ID. NO.					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER						SEA
31	223	ME	4416 N	047205W		149	47	11	24	122	1964	LC1	006	3795	12	28	2		X1	7	7		0006	
		WATER COLOR CODE	WIND TRANS. (m)		DIR.	SPEED OR FORCE		BARO- METER (mbs)	AIR TEMP. °C		VS. CODE	ND. DBS. DEPTHS	SPECIAL OBSERVATIONS											
									DRY BULB	WET BULB														
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-x10 <sup>3</sup>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>2</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S CC							
		STD	0000	0718	3349	2623	0018015	0000	14778															
122		OBS	0000	0718	33488	2623			14778															
		STD	0010	0719	3350	2623	0017950	0018	14780															
		STD	0020	0721	3352	2624	0017877	0036	14782															
122		OBS	0023	0721	33519	2625			14783															
		STD	0030	0605	3355	2642	0016174	0053	14739															
122		OBS	0047	0456	33759	2676			14683															
		STD	0050	0469	3386	2683	0012340	0081	14690															
122		OBS	0070	0557	34376	2713			14737															
		STD	0075	0589	3446	2716	0009239	0108	14752															
122		OBS	0092	0660	34691	2725			14786															
		STD	0100	0641	3470	2728	0008130	0130	14780															
		STD	0125	0587	3473	2738	0007266	0149	14763															
122		OBS	0138	0562	34738	2741			14755															
		STD	0150	0540	3473	2744	0006734	0167	14748															
122		OBS	0185	0492	34722	2749			14734															
		STD	0200	0490	3475	2751	0006067	0199	14736															
		STD	0250	0480	3482	2758	0005487	0228	14741															
122		OBS	T0276	0473	34849	2761			14742															
		STD	0300	0463	3486	2763	0005052	0254	14742															
122		OBS	0369	0439	34891	2768			14744															
		STD	0400	0433	3490	2769	0004523	0302	14747															
		STD	0500	0414	3491	2772	0004337	0346	14756															
122		OBS	0553	0405	34919	2774			14761															
		STD	0600	0398	3492	2774	0004202	0389	14766															
		STD	0700	0385	3491	2775	0004170	0431	14777															
122		OBS	T0744	0380	34912	2776			14782															
		STD	0800	0375	3491	2776	0004176	0473	14789															
		STD	0900	0367	3491	2777	0004171	0514	14802															
122		OBS	0945	0365	34909	2777			14809															
		STD	1000	0363	3491	2777	0004209	0556	14817															
		STD	1100	0361	3492	2778	0004196	0598	14833															
122		OBS	T1154	0361	34924	2779			14842															

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORBIT INCH	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TPH	AMT	
31	223	ME	44085N	046415W		149	46	11	24	157	1964	LC1	007	3840	13	29	2			X1	8	3	0007
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. IM	DIR.	SPEED OR FORCE	(mbs)		DRY BULB	WET BULB										
									31	505	280	028	000	7	13								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SI O <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	0828	3330	2592	0020942	0000	14818														
157		OBS	0000	0828	33297	2592			14818														
		STD	0010	0815	3329	2593	0020804	0021	14814														
		STD	0020	0799	3329	2595	0020625	0042	14810														
157		OBS	0026	0788	33287	2597			14807														
		STD	0030	0778	3329	2599	0020345	0062	14803														
		STD	0050	0729	3340	2614	0018894	0101	14789														
157		OBS	0053	0722	33433	2618			14787														
		STD	0075	0461	3385	2683	0012355	0140	14691														
157		OBS	0079	0443	33927	2691			14685														
		STD	0100	0529	3438	2717	0009161	0167	14730														
157		OBS	0104	0540	34439	2721			14736														
		STD	0125	0536	3451	2727	0008300	0189	14739														
		STD	0150	0527	3458	2733	0007703	0209	14740														
157		OBS	0157	0524	34593	2735			14740														
		STD	0200	0495	3466	2743	0006796	0245	14736														
157		OBS	0210	0490	34673	2745			14736														
		STD	0250	0484	3476	2752	0005981	0277	14741														
		STD	0300	0477	3484	2760	0005361	0306	14748														
157		OBS	T0315	0475	34860	2761			14750														
		STD	0400	0466	3493	2768	0004675	0356	14761														
157		OBS	0422	0462	34945	2770			14763														
		STD	0500	0431	3493	2772	0004380	0401	14763														
		STD	0600	0401	3492	2774	0004213	0444	14767														
157		OBS	0634	0394	34913	2774			14770														
		STD	0700	0389	3492	2775	0004208	0486	14778														
		STD	0800	0383	3492	2776	0004208	0528	14793														
157		OBS	T0848	0380	34920	2776			14799														
		STD	0900	0378	3492	2777	0004217	0570	14807														
		STD	1000	0374	3492	2777	0004243	0613	14822														
157		OBS	1064	0370	34924	2778			14831														
		STD	1100	0368	3492	2778	0004280	0655	14836														
		STD	1200	0361	3492	2778	0004279	0698	14850														
157		OBS	T1280	0354	34913	2779			14860														



TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR	HGT	PER		SEA	TYPE		AMT	
31	223	IN	4408 N	04638 W	149	46	01	28	164	1965	LC2	001	3860	12	14	2			X2	5	8	0032		
		WATER COLOR CODE	WIND TRANS. MI	WIND DIR	SPEED OF FORCE	BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
CDLOR CODE	TRANS. MI						DIR	SPEED OF FORCE					DRY BULB	WET BULB										
		16	S15	030	106	100	6	13																
MESSING TIME HR 1/10	CAST OF ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-310°	$\Sigma \Delta D$ DYN. M. X 10 <sup>3</sup>	SDUND VELDCTY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	Si D <sub>4</sub> -Si µg - dl/l	pH	S CC							
		STD	0000	0640	3375	2654	0015036	0000	14750															
164		OBS	0000	0640	3375	2654			14750															
		STD	0010	0638	3375	2654	0015048	0015	14751															
		STD	0020	0635	3375	2654	0015031	0030	14752															
164		OBS	0024	0634	3374	2654			14752															
		STD	0030	0634	3375	2655	0015013	0045	14753															
164		OBS	0046	0635	3376	2655			14756															
		STD	0050	0696	3402	2667	0013835	0074	14784															
164		OBS	0069	0833	3472	2703			14850															
		STD	0075	0779	3467	2707	0010170	0104	14829															
164		OBS	0091	0672	3456	2713			14789															
		STD	0100	0671	3461	2717	0009182	0128	14790															
		STD	0125	0667	3472	2726	0008352	0150	14794															
164		OBS	0137	0665	3475	2730			14796															
		STD	0150	0642	3478	2735	0007621	0170	14789															
164		OBS	0184	0595	3483	2745			14777															
		STD	0200	0595	3487	2748	0006425	0205	14780															
		STD	0250	0584	3496	2756	0005686	0235	14785															
164		OBS	0278	0569	3498	2760			14784															
		STD	0300	0544	3497	2762	0005184	0263	14777															
164		OBS	0373	0477	3493	2767			14761															
		STD	0400	0468	3494	2769	0004624	0312	14762															
		STD	0500	0437	3494	2772	0004374	0357	14766															
164		OBS	T0571	0419	3494	2774			14770															
		STD	0600	0413	3494	2775	0004201	0400	14772															
		STD	0700	0396	3493	2776	0004177	0441	14782															
164		OBS	0779	0385	3492	2776			14790															
		STD	0800	0383	3492	2776	0004193	0483	14793															
		STD	0900	0376	3490	2775	0004349	0526	14806															
164		OBS	0992	0370	3488	2775			14819															
		STD	1000	0370	3489	2775	0004476	0570	14820															
		STD	1100	0365	3488	2775	0004509	0615	14835															
		STD	1200	0362	3488	2775	0004564	0660	14850															
164		OBS	T1210	0362	3488	2775			14852															

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10	LONGITUDE ° ' 10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10°	1°	MO	OAT HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	223	IN	4415 N	047165W		149	47	01	28	223	1965	LC2 002	3705	13	09	2			X8	7 6		0033
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB										
								16	S23		000	100				100	6	13				
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ O OYN, M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C					
		STD	0000	0620	3388	2666	0013879	0000	14744													
	223	OBS	0000	0620	33876	2666			14744													
		STD	0010	0650	3390	2664	0014077	0014	14758													
		STD	0020	0679	3404	2671	0013420	0028	14773													
	223	OBS	0021	0682	34067	2673			14775													
		STD	0030	0833	3444	2680	0012573	0041	14839													
	223	OBS	0039	0928	34684	2685			14880													
		STD	0050	0932	3470	2685	0012181	0065	14883													
	223	OBS	0059	0934	34728	2687			14886													
		STD	0075	0929	3479	2693	0011513	0095	14887													
	223	OBS	0079		34809																	
		STD	0100	0920	3493	2705	0010395	0122	14890													
	223	OBS	0121		34987																	
		STD	0125	0912	3498	2710	0009943	0148	14892													
		STD	0150	0903	3495	2709	0010083	0173	14892													
	223	OBS	0165	0898	34931	2709			14892													
		STD	0200	0769	3468	2725	0008688	0220	14849													
		STD	0250	0639	3481	2737	0007536	0260	14805													
	223	OBS	0258	0624	34794	2738			14800													
		STD	0300	0605	3489	2748	0006543	0296	14801													
	223	OBS	0358	0575	34981	2759			14799													
		STD	0400	0541	3498	2763	0005202	0354	14793													
		STD	0500	0474	3497	2770	0004583	0403	14781													
	223	OBS	T0574	0436	34962	2774			14778													
		STD	0600	0428	3496	2775	0004232	0447	14775													
		STD	0700	0403	3495	2776	0004146	0489	14785													
		STD	0800	0386	3493	2777	0004147	0531	14794													
	223	OBS	0806	0385	34930	2777			14795													
		STD	0900	0383	3493	2777	0004194	0572	14809													
		STD	1000	0380	3494	2778	0004226	0615	14825													
	223	OBS	1045	0378	34936	2778			14832													
		STD	1100	0376	3494	2778	0004258	0657	14840													
		STD	1200	0371	3494	2779	0004276	0700	14855													
	223	OBS	T1292	0366	34937	2779			14868													

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT PER	SEA	TYPE	AMT				
31	223	IN	44225N	047575W		149	47	01	29	023	1965	LC2	003	3318	15	31	2			X6	7	6	0034	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		ND. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. UNIT	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	7	13											
								31	S15	040	028	028	7	13										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SIO <sub>4</sub> -Si μg - ml/l	pH	S C							
		STD	0000	0606	3390	2670	0013508	0000	14739															
	Q23	OBS	0000	0606	33903	2670			14739															
		STD	0010	0607	3391	2670	0013515	0014	14741															
		STD	0020	0609	3391	2670	0013523	0027	14743															
	Q23	OBS	0029	0610	33911	2670			14745															
		STD	0030	0624	3394	2671	0013490	0041	14751															
	Q23	OBS	0046	0808	34363	2678			14832															
		STD	0050	0830	3440	2678	0012863	0067	14841															
		STD	0075	0945	3466	2680	0012732	0099	14892															
	Q23	OBS	0084	0975	34760	2683			14905															
		STD	0100	0941	3500	2707	0010207	0128	14899															
	Q23	OBS	0113		35139																			
		STD	0125	0891	3514	2726	0008477	0151	14886															
		STD	0150	0843	3513	2733	0007853	0171	14872															
	Q23	OBS	0169		35120																			
		STD	0200	0754	3503	2739	0007362	0209	14845															
	Q23	OBS	0226	0712	34975	2740			14832															
		STD	0250	0676	3498	2745	0006772	0245	14822															
		STD	0300	0607	3497	2754	0005945	0276	14803															
	Q23	OBS	0339	0558	34973	2761			14789															
		STD	0400	0487	3494	2766	0004846	0330	14770															
	Q23	OBS	0456	0436	34912	2770			14758															
		STD	0500	0423	3491	2771	0004416	0377	14759															
		STD	0600	0399	3492	2774	0004220	0420	14766															
	Q23	OBS	T0697	0384	34919	2776			14776															
		STD	0700	0384	3492	2776	0004114	0462	14776															
		STD	0800	0383	3493	2777	0004122	0503	14793															
		STD	0900	0383	3494	2778	0004129	0544	14809															
	Q23	OBS	0960	0382	34943	2778			14819															
		STD	1000	0379	3494	2778	0004170	0586	14825															
		STD	1100	0371	3494	2779	0004190	0627	14838															
		STD	1200	0365	3493	2779	0004239	0669	14852															
	Q23	OBS	1221	0364	34931	2779			14855															
		STD	1300	0360	3493	2780	0004254	0712	14867															
		STD	1400	0357	3494	2780	0004276	0755	14882															
	Q23	OBS	T1484	0355	34938	2780			14896															

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	223	IN	4432 N	04840 W		149	48	01	29	071	1965	LC2	004	2320	10	24	2			X1	8	2	0035				
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB												
					27	515	080	022	017	7	13																
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$ ?	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C										
		STD	0000	0284	3366	2686	0012041	0000	14601																		
071		OBS	0000	0284	3366.5	2686			14601																		
		STD	0010	0264	3366	2687	0011906	0012	14594																		
071		OBS	0019		33658																						
		STD	0020	0244	3366	2689	0011752	0024	14587																		
		STD	0030	0224	3370	2693	0011299	0035	14560																		
071		OBS	0037		33727																						
		STD	0050	0184	3380	2705	0010253	0057	14567																		
071		OBS	0055		33833																						
071		OBS	0071	0142	33936	2718			14554																		
		STD	0075	0151	3396	2720	0008815	0081	14559																		
		STD	0100	0213	3412	2728	0008066	0102	14593																		
071		OBS	0107	0232	34174	2731			14603																		
		STD	0125	0293	3433	2738	0007158	0121	14635																		
071		OBS	0142	0339	34456	2744			14659																		
		STD	0150	0349	3449	2745	0006488	0138	14665																		
		STD	0200	0402	3469	2756	0005560	0168	14698																		
071		OBS	0216	0416	34745	2759			14707																		
		STD	0250	0444	3483	2763	0005010	0194	14726																		
071		OBS	0291	0466	34903	2766			14743																		
		STD	0300	0463	3491	2767	0004679	0219	14743																		
		STD	0400	0436	3493	2771	0004333	0264	14749																		
071		OBS	T0447	0427	34939	2773			14753																		
		STD	0500	0425	3493	2773	0004305	0307	14761																		
		STD	0600	0414	3492	2773	0004398	0350	14772																		
071		OBS	0620	0410	34912	2773			14774																		
		STD	0700	0386	3490	2774	0004283	0394	14777																		
		STD	0800	0356	3489	2777	0004104	0436	14781																		
071		OBS	0802	0355	34887	2776			14781																		
		STD	0900	0353	3489	2777	0004162	0477	14796																		
071		OBS	T0990	0352	34892	2777			14811																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUTY INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	223	IN	44357N	048593W		149	48	01	29	093	1965	LC2	005	0284	02	22	2			X1	8	2	0036				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
									27	514	110	017	011	7	08												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$ ?	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C										
		STD	0000	0019	3316	2664	0014109	0000	14476																		
093		OBS	0000	0019	33163	2664			14476																		
		STD	0010	0009	3326	2672	0013319	0014	14475																		
		STD	0020	0003	3334	2679	0012678	0027	14475																		
093		OBS	0025	0001	33377	2682			14475																		
		STD	0030	0002	3340	2684	0012213	0039	14477																		
		STD	0050	0006	3347	2689	0011678	0063	14483																		
093		OBS	0050	0006	33472	2689			14483																		
		STD	0075	0007	3349	2690	0011555	0092	14488																		
093		OBS	0075	0007	33488	2690			14488																		
		STD	0100	0011	3352	2692	0011364	0121	14494																		
		OBS	0100	0011	33515	2692			14494																		
		STD	0125	0016	3356	2696	0011042	0149	14501																		
		STD	0150	0029	3363	2701	0010575	0176	14512																		
093		OBS	0151	0030	33632	2701			14513																		
		STD	0200	0078	3385	2716	0009188	0225	14545																		
093		OBS	0201	0079	33852	2716			14546																		
093		OBS	T0232	0101	33995	2726			14563																		

TABLE I.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
31	223	IN	44365N	04908 W		149	49	01	29	109	1965	LC2	006	0159	00	23	2			X1	8	2	0037		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. IMI	DIR.	SPEED OF FORCE		DRY BULB	WET BULB													
								26	S15		120	022	017	7									03		
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ O DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO <sub>2</sub> -N $\mu g - ml/l$	NO <sub>3</sub> -N $\mu g - ml/l$	SiO <sub>4</sub> -Si $\mu g - ml/l$	pH	S COND							
		STD	0000	0074	3314	2659	0014580		0000	14501															
109		OBS	0000	0074	33138	2659				14501															
		STD	0010	0065	3314	2660	0014493		0015	14498															
		STD	0020	0060	3315	2660	0014426		0029	14498															
109		OBS	0025	0059	33150	2661				14498															
		STD	0030	0061	3315	2660	0014414		0043	14500															
		STD	0050	0068	3314	2659	0014566		0072	14506															
109		OBS	0050	0068	33135	2659				14506															

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
31	223	IN	44405N	04921 W		149	49	01	29	123	1965	LC2	007	0055	00	22	2			X1	8	2	0038		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. IMI	DIR.	SPEED OF FORCE		DRY BULB	WET BULB													
								26	S16		130	028	022	7									03		
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ O DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO <sub>2</sub> -N $\mu g - ml/l$	NO <sub>3</sub> -N $\mu g - ml/l$	SiO <sub>4</sub> -Si $\mu g - ml/l$	pH	S COND							
		STD	0000	0065	3314	2659	0014516		0000	14497															
123		OBS	0000	0065	33140	2659				14497															
		STD	0010	0065	3313	2658	0014607		0015	14498															
		STD	0020	0064	3312	2658	0014684		0029	14499															
123		OBS	0025	0063	33111	2657				14500															
		STD	0030	0062	3311	2658	0014695		0044	14500															
		STD	0050	0058	3312	2659	0014595		0073	14502															
123		OBS	0050	0058	33124	2659				14502															

TABLE II. Observed and interpolated oceanographic data taken by USCGC DUANE on North Atlantic Standard Monitoring Section 3, 14-15 February 1966; prepared from NODC listing No. 31-792.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS INCH	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	792	OU	44406N	049185W		149	49	02	14	010	1966		026	0064	00	33			5	X1	6	2		0001		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
							32	535		215	007	006	7	04												
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C								
		STD	0000	0122	3354	2688	0011801		0000	14528																
	010	OBS	0000	0122	33540	2688				14528																
		STD	0010	0127	3354	2688	0011803		0012	14532																
	010	OBS	0010	0127	33544	2688				14532																
		STD	0020	0128	3354	2688	0011821		0024	14534																
	010	OBS	0024	0129	33543	2688				14535																
		STD	0030	0135	3358	2690	0011583		0035	14539																
	010	OBS	0049	0172	33844	2709				14563																

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS INCH	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	792	DU	44367N	049057W		149	49	02	14	035	1966		027	0091	01	32			5	X1	6	2		0002		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
							32	517		215	011	000	7	05												
MESSNGR TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C								
		STD	0000	0116	3349	2685	0012114		0000	14525																
	035	OBS	0000	0116	33494	2685				14525																
		STD	0010	0118	3351	2686	0012028		0012	14527																
	035	OBS	0010	0118	33507	2686				14527																
		STD	0020	0119	3351	2686	0012041		0024	14529																
	035	OBS	0024	0119	33506	2686				14530																
		STD	0030	0120	3351	2686	0012020		0036	14532																
	035	OBS	0049	0126	33542	2688				14538																
		STD	0050	0127	3355	2688	0011789		0060	14538																
	035	OBS	0073	0138	33631	2694				14548																



TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				
31	792	DU	44322N	048488W		149	48	02	14	097	1966		028	1536	06	29			4	X1	6 1	0003
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	mbsl	mbsl	DRY BULB	WET BULB									
									29	514	217	011	000	8	11							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	0134	3354	2687	0011861	0000	14533													
	097	OBS	0000	0134	33542	2687			14533													
	097	OBS	0007	0135	33546	2688			14535													
		STD	0010	0142	3356	2688	0011777	0012	14539													
	097	OBS	0018	0170	33641	2693			14554													
		STD	0020	0187	3370	2696	0011023	0023	14562													
		STD	0030	0260	3396	2711	0009615	0034	14600													
	097	OBS	0037	0301	34107	2719			14620													
		STD	0050	0357	3430	2729	0007913	0051	14649													
	097	OBS	0055	0368	34338	2731			14655													
	097	OBS	0072	0360	34351	2733			14655													
		STD	0075	0361	3437	2735	0007445	0070	14656													
		STD	0100	0365	3447	2742	0006767	0088	14663													
	097	OBS	0100	0365	34468	2742			14663													
		STD	0125	0364	3452	2746	0006383	0104	14667													
		STD	0150	0362	3456	2750	0006089	0120	14671													
	097	OBS	T0152	0362	34567	2750			14672													
		STD	0200	0401	3468	2755	0005625	0149	14698													
		STD	0250	0431	3477	2759	0005317	0177	14720													
		STD	0300	0450	3483	2762	0005130	0203	14737													
	097	OBS	T0307	0452	34840	2762			14739													
		STD	0400	0443	3485	2764	0005008	0254	14750													
	097	OBS	0464	0435	34857	2766			14758													
		STD	0500	0429	3486	2766	0004916	0303	14761													
	097	OBS	0598	0411	34849	2768			14770													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER				
31	792	DU	44294N	048357W		149	48	02	14	132	1966		029	2651	09	34			4	X1	6 6	0004
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	mbsl	mbsl	DRY BULB	WET BULB									
									28	514	235	033	022	7	11							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C C					
		STD	0000	0468	3431	2719	0008870	0000	14688													
	132	OBS	0000	0468	34314	2719			14688													
		STD	0010	0468	3431	2719	0008880	0009	14689													
	132	OBS	0010	0468	34314	2719			14689													
		STD	0020	0466	3431	2719	0008872	0018	14690													
	132	OBS	0027	0465	34313	2719			14691													
		STD	0030	0451	3431	2721	0008752	0027	14686													
		STD	0050	0380	3431	2728	0008057	0043	14659													
	132	OBS	0052	0375	34306	2728			14657													
		STD	0075	0344	3432	2732	0007686	0063	14648													
	132	OBS	0079	0338	34318	2733			14646													
		STD	0100	0433	3454	2741	0006909	0081	14693													
	132	OBS	0105	0450	34587	2743			14701													
		STD	0125	0477	3465	2745	0006584	0098	14717													
		STD	0150	0500	3473	2748	0006271	0114	14731													
	132	OBS	0159	0505	34753	2750			14735													
		STD	0200	0509	3484	2756	0005609	0144	14745													
	132	OBS	0203	0509	34850	2757			14745													
		STD	0250	0499	3487	2759	0005332	0171	14749													
		STD	0300	0488	3489	2762	0005114	0197	14753													
		STD	0400	0467	3492	2767	0004761	0247	14761													
	132	OBS	T0425	0462	34924	2768			14763													
		STD	0500	0443	3492	2770	0004592	0294	14768													
		STD	0600	0423	3492	2772	0004464	0339	14776													
	132	OBS	0641	0416	34918	2773			14780													
		STD	0700	0408	3492	2773	0004412	0383	14786													
		STD	0800	0400	3491	2774	0004436	0427	14800													
	132	OBS	T0858	0398	34913	2774			14808													

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DNFT INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	792					DU	44265N	048170W	149	48		02	14			159	1966			030	3292		13
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbx)		DRY BULB	WET BULB										
								24	520	215	067	044	7	12									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$		$\Sigma \Delta \sigma$ OYN. M. $\times 10^3$		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	S CC			
		STD	0000	0453																			
159		OBS	0000	0453	34710	2752Q																	
159		OBS	0009	0435	34330	2724						14676											
		STD	0010	0434	3433	2724	0008407					14676											
		STD	0020	0427	3433	2725	0008323					14674											
159		OBS	0025	0422	34334	2726						14673											
		STD	0030	0412	3433	2727	0008181					14670											
		STD	0050	0391	3433	2728	0008037					14664											
159		OBS	0050	0391	34327	2728						14664											
		STD	0075	0405	3449	2740	0006977					14676											
159		OBS	0076	0406	34491	2740						14677											
		STD	0100	0386	3455	2746	0006386					14673											
159		OBS	0100	0386	34546	2746						14673											
		STD	0125	0375	3457	2749	0006115					14673											
159		OBS	0148	0364	34612	2754						14673											
		STD	0150	0367	3462	2754	0005686					14674											
159		OBS	0197	0426	34762	2759						14709											
		STD	0200	0426	3476	2759	0005258					14709											
		STD	0250	0425	3479	2762	0005073					14717											
		STD	0300	0423	3483	2764	0004870					14725											
159		OBS	T0395	0417	34883	2770						14739											
		STD	0400	0416	3488	2770	0004461					14740											
		STD	0500	0399	3489	2772	0004341					14749											
		STD	0600	0386	3489	2773	0004268					14760											
159		OBS	T0650	0380	34892	2774						14766											
		STD	0700	0377	3489	2775	0004243					14773											
		STD	0800	0372	3489	2775	0004267					14788											
		STD	0900	0367	3489	2776	0004289					14802											
		STD	1000	0363	3490	2776	0004320					14817											
159		OBS	T1044	0361	34895	2776						14824											
		STD	1100	0359	3490	2777	0004319					14832											
		STD	1200	0355	3491	2778	0004280					14847											
159		OBS	1251	0353	34912	2779						14855											

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	792	0U	44248N	047555W	149	47	02	14	205	1966	032	3840	14	32			4	X2	5	8		0006
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	ORY BULB	WET BULB											
								17	S18	159	078							056	7	13		
MESSAGE TIME HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ CTN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO <sub>2</sub> -N $\mu g - \mu l/l$	NO <sub>3</sub> -N $\mu g - \mu l/l$	SiO <sub>4</sub> -Si $\mu g - \mu l/l$	pH	S C				
		STD	0000	0558	3429	2706	0010053		0000	14724												
205		OBS	0000	0558	34289	2706				14724												
		STD	0010	0521	3430	2712	0009577		0010	14711												
205		OBS	0011	0517	34299	2712				14710												
		STD	0020	0464	3432	2720	0008803		0019	14690												
205		OBS	0029	0423	34334	2725				14674												
		STD	0030	0420	3433	2726	0008254		0028	14673												
		STD	0050	0380	3433	2730	0007884		0044	14659												
205		OBS	0057	0372	34333	2731				14657												
		STD	0075	0375	3436	2733	0007649		0063	14662												
205		OBS	0086	0376	34374	2733				14664												
		STD	0100	0365	3437	2735	0007473		0082	14662												
205		OBS	0115	0361	34373	2735				14663												
		STD	0125	0367	3442	2738	0007168		0100	14667												
		STD	0150	0387	3454	2746	0006486		0117	14682												
205		OBS	0174	0415	34639	2751				14699												
		STD	0200	0467	3475	2754	0005808		0148	14726												
205		OBS	0230	0514	34857	2757				14752												
		STD	0250	0504	3486	2758	0005465		0176	14751												
		STD	0300	0479	3488	2763	0005085		0203	14749												
		STD	0400	0438	3490	2769	0004579		0251	14749												
205		OBS	0466	0417	34905	2771				14751												
		STD	0500	0411	3491	2772	0004333		0296	14754												
		STD	0600	0394	3491	2774	0004231		0338	14764												
		STD	0700	0382	3491	2775	0004173		0380	14775												
205		OBS	0750	0378	34910	2776				14782												
		STD	0800	0376	3492	2777	0004113		0422	14790												
		STD	0900	0373	3492	2777	0004166		0463	14805												
205		OBS	10946	0371	34921	2777				14812												
		STD	1000	0369	3492	2777	0004236		0505	14820												
		STD	1100	0365	3491	2777	0004347		0548	14835												
		STD	1200	0359	3490	2777	0004424		0592	14849												
205		OBS	1215	0358	34895	2777				14851												
		STD	1300	0352	3490	2778	0004398		0636	14863												
		STD	1400	0344	3491	2779	0004304		0680	14876												
205		OBS	1435	0341	34921	2780				14881												

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARSSEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10°	1°	MO		DAY	HR.1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER	
31	792	DU	44203N	047340W	149	47	02	14	231	1966	033	3884	13	16		4	X6	5	8	0007
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
						COLOR CODE	TRANS. m	DIR.	SPEED OR FORCE	MBAR	DRY BULB	WET BULB								
									16	528	112	078	072	6	13					
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO <sub>3</sub> -N $\mu g - at/l$	NO <sub>3</sub> -N $\mu g - at/l$	SiO <sub>4</sub> -Si $\mu g - at/l$	pH			
		STD	0000	0589	3426	2700	0010627		0000	14737										
231		OBS	0000	0589	34261	2700				14737										
		STD	0010	0586	3426	2701	0010600		0011	14737										
231		OBS	0011	0586	34262	2701				14737										
		STD	0020	0587	3426	2701	0010622		0021	14739										
231		OBS	0029	0588	34262	2701				14741										
		STD	0030	0588	3426	2701	0010647		0032	14741										
		STD	0050	0587	3426	2701	0010672		0053	14744										
231		OBS	0057	0587	34260	2701				14745										
		STD	0075	0588	3427	2701	0010661		0080	14749										
231		OBS	0085	0590	34273	2701				14751										
		STD	0100	0601	3441	2711	0009792		0105	14760										
231		OBS	0112	0602	34504	2718				14763										
		STD	0125	0581	3460	2728	0008163		0128	14758										
		STD	0150	0546	3474	2744	0006730		0146	14750										
231		OBS	0169	0525	34812	2752				14746										
		STD	0200	0506	3483	2755	0005652		0177	14743										
231		OBS	T0231	0489	34854	2759				14742										
		STD	0250	0479	3486	2761	0005177		0204	14741										
		STD	0300	0456	3487	2764	0004899		0230	14740										
		STD	0400	0418	3489	2770	0004431		0276	14741										
231		OBS	T0443	0406	34893	2772				14743										
		STD	0500	0403	3491	2773	0004214		0320	14751										
		STD	0600	0397	3493	2776	0004094		0361	14765										
		STD	0700	0389	3493	2776	0004097		0402	14779										
231		OBS	0728	0386	34931	2777				14782										
		STD	0800	0378	3492	2777	0004136		0443	14790										
231		OBS	T0865	0371	34907	2776				14798										
		STD	0900	0369	3491	2777	0004188		0485	14803										
		STD	1000	0361	3492	2778	0004116		0526	14817										
		STD	1100	0354	3492	2779	0004116		0568	14831										
231		OBS	T1104	0354	34924	2779				14831										
		STD	1200	0349	3493	2780	0004060		0608	14845										
231		OBS	1279	0346	34933	2781				14857										

TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT DROGHT	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S				DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MD	DAY	HR.		1/10	CRUISE NO.	STATION NUMBER				DIR.	HGT PER	SEA	TYPE		AMT		
31	792					DJ	44145N	047098W	149	47		02		15	024									1966	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLDR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	4	13														
		21	529	078		089	089	4	13																
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S CLO								
		STD	0000	0576	3415	2693	0011326	0000	14730																
024		OBS	0000	0576	34147	2693			14730																
024		OBS	0004	0573	34154	2694			14729																
		STD	0010	0575	3415	2694	0011282	0011	14731																
024		OBS	0015	0576	34152	2693			14732																
		STD	0020	0575	3417	2695	0011167	0023	14733																
		STD	0030	0573	3420	2698	0010929	0034	14734																
024		OBS	0033	0572	34207	2698			14734																
		STD	0050	0575	3421	2698	0010941	0055	14738																
024		OBS	0052	0575	34205	2698			14739																
024		OBS	0070	0580	34235	2700			14744																
		STD	0075	0580	3424	2700	0010784	0083	14745																
		STD	0100	0577	3425	2701	0010677	0109	14748																
024		OBS	0103	0577	34255	2701			14749																
		STD	0125	0560	3460	2731	0007910	0133	14750																
024		OBS	T0147	0543	34834	2751			14750																
		STD	0150	0540	3484	2752	0005913	0150	14749																
		STD	0200	0496	3495	2766	0004641	0176	14741																
024		OBS	0208	0490	34964	2768			14740																
		STD	0250	0474	3496	2770	0004344	0199	14740																
		STD	0300	0459	3496	2772	0004231	0220	14742																
		STD	0400	0438	3497	2774	0004095	0262	14750																
024		OBS	T0457	0432	34965	2775			14757																
		STD	0500	0432	3498	2776	0004024	0302	14764																
024		OBS	T0561	0433	34994	2777			14775																
		STD	0600	0429	3499	2777	0003984	0342	14780																
		STD	0700	0418	3500	2778	0003949	0382	14792																
024		OBS	T0743	0413	34995	2779			14797																
		STD	0800	0405	3499	2779	0003931	0422	14803																
024		OBS	0893	0391	34986	2781			14812																

TABLE II.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY HR, 1/10	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	792	DU	44074N	046336W	149 46 02 15 059	149	46	02	15	059	1966	035	4023	13	24			5	X2	5	8	0009
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTNS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANSL (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB	VIS. CODE									
								25	530	024	117	106	5	13								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-10 <sup>3</sup>	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	Si O <sub>4</sub> -Si μg - dl/l	pH	SCC					
		STD	0000	0706	3399	2664	0014091	0000	14780													
059		OBS	0000	0706	33993	2664			14780													
059		OBS	0007	0696	34099	2674			14778													
		STD	0010	0699	3412	2675	0013068	0014	14780													
		STD	0020	0708	3417	2677	0012859	0027	14786													
059		OBS	0020	0708	34166	2677			14786													
		STD	0030	0709	3422	2681	0012485	0039	14789													
059		OBS	0049	0711	34283	2686			14793													
		STD	0050	0711	3428	2686	0012075	0064	14794													
		STD	0075	0715	3429	2686	0012147	0094	14799													
059		OBS	0077	0715	34285	2686			14800													
059		OBS	0081	0716	34399	2694			14802													
		STD	0100	0723	3467	2715	0009431	0121	14811													
059		OBS	0121	0730	34848	2728			14820													
		STD	0125	0719	3485	2729	0008098	0143	14816													
		STD	0150	0654	3485	2738	0007277	0162	14795													
059		OBS	0164	0622	34846	2742			14785													
		STD	0200	0595	3487	2748	0006425	0196	14780													
		STD	0250	0562	3490	2754	0005860	0227	14775													
		STD	0300	0535	3493	2760	0005373	0255	14773													
059		OBS	T0352	0512	34960	2765			14772													
		STD	0400	0508	3498	2767	0004799	0306	14779													
		STD	0500	0493	3502	2772	0004439	0352	14790													
059		OBS	T0567	0480	35031	2774			14796													
		STD	0600	0466	3503	2776	0004154	0395	14795													
		STD	0700	0431	3503	2780	0003843	0435	14798													
		STD	0800	0409	3503	2782	0003682	0473	14805													
059		OBS	0804	0408	35029	2782			14805													
		STD	0900	0409	3501	2781	0003930	0511	14821													
		STD	1000	0410	3500	2780	0004114	0551	14838													
059		OBS	1054	0411	34990	2779			14848													
		STD	1100	0411	3499	2779	0004291	0593	14855													
		STD	1200	0410	3498	2778	0004447	0637	14871													
059		OBS	1269	0408	34974	2778			14882													



TABLE II.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	792	OU	43481N	045405W		149	35	02	15	100	1966		036	4108	10	26			5	X4	5	8	0010	
						WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE			DRY BULB	WET BULB	VIS. CODE										
									27	535	030		072	061	6	12								
MESSAGE TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND SALTY-2107		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	SIC						
		STD	0000	0672	3416	2682	0012420		0000	14768														
100		OBS	0000	0672	34158	2682				14768														
100		OBS	0009	0681	34145	2679				14773														
		STD	0010	0682	3415	2680	0012617		0013	14774														
		STD	0020	0687	3419	2682	0012398		0025	14778														
100		OBS	0021	0687	34195	2682				14778														
		STD	0030	0692	3420	2682	0012410		0037	14782														
100		OBS	0041	0696	34206	2682				14785														
		STD	0050	0699	3425	2685	0012160		0062	14788														
100		OBS	0062	0700	34311	2690				14792														
		STD	0075	0700	3435	2693	0011467		0092	14794														
		STD	0100	0679	3441	2700	0010782		0119	14791														
100		OBS	0121	0642	34448	2708				14780														
		STD	0125	0628	3445	2710	0009864		0145	14775														
		STD	0150	0549	3447	2722	0008782		0168	14748														
100		OBS	0161	0520	34487	2727				14738														
		STD	0200	0512	3460	2737	0007439		0209	14743														
		STD	0250	0505	3472	2747	0006521		0244	14750														
		STD	0300	0502	3483	2756	0005725		0275	14758														
100		OBS	T0324	0501	34873	2759				14762														
		STD	0400	0516	3499	2767	0004821		0327	14782														
100		OBS	0490	0517	35059	2772				14799														
		STD	0500	0514	3506	2773	0004421		0373	14799														
		STD	0600	0484	3504	2774	0004335		0417	14803														
100		OBS	T0664	0467	35021	2775				14806														
		STD	0700	0460	3501	2775	0004340		0461	14809														
		STD	0800	0437	3499	2776	0004314		0504	14816														
100		OBS	T0864	0422	34976	2777				14820														
		STD	0900	0413																				
		STD	1000	0386																				
100		OBS	1028	0378	3474P	2762P																		

TABLE III. Observed and interpolated oceanographic data taken by USCGC HUMBOLDT on North Atlantic Standard Monitoring Sections 2 and 3, 9-12 March 1966; prepared from NODC listing No. 31-702.

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
						10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA	TYPE		AMT				
31	702	HU	4440 N	04918 W		149	49	03	09	092	1966		026		0057	01	05	3	4		X6	5	8		0001
						WATER		WIND		BARO- METER		AIR TEMP. °C													
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE	BARO- METER (mbs)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
									33	515	254	017		6	04										
MESSENGR TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ D OYN. M. $\times 10^3$		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH						
		STD	0000	0107	3356	2690		0011588		0000		14521													
092		OBS	0000	0107	3356	2690						14521													
		STD	0010	0103	3356	2691		0011542		0012		14521													
092		OBS	0010	0103	33559	2691						14521													
		STD	0020	0102	3356	2691		0011530		0023		14523													
092		OBS	0025	0102	33567	2692						14524													
		STD	0030	0102	3357	2692		0011476		0035		14524													
		STD	0050	0100	3357	2692		0011450		0058		14527													
092		OBS	0054	0100	33569	2692						14527													

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT				
31	702	HU	4436 N	04904 W		149	49	03	09	112	1966		027		0002	00	18	2	3		X6	5	8		0002
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. IMT	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB													
									36	514	254	022		7	04										
MESSENGR TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ D OYN. M. $\times 10^3$		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH							
		STD	0000	0149																					
112		OBS	0000	0149																					
		STD	0010	0147																					
112		OBS	0010	0147																					
		STD	0020	0140																					
112		OBS	0025	0137	33782	2706					14542														
		STD	0030	0135	3379	2707	0009996				14542														
		STD	0050	0135	3382	2710	0009772				14546														
112		OBS	0050	0135	33819	2710					14546														

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 1/10	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																												
						10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT		PER	SEA	TYPE	AMT																								
31	702	HU	4434 N	04855 W	149 48	03 09 127	1966		027-A	0192	02	18	2	2		X6	5 8		0003																												
<table><tr><td colspan="2">WATER</td><td colspan="2">WIND</td><td colspan="2">BARO- METER</td><td colspan="2">AIR TEMP. °C</td><td rowspan="2">VIS. CODE</td><td rowspan="2">NO. OBS. DEPTHS</td><td rowspan="2">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>METER (mbs)</td><td>DRY BULB</td><td>WET BULB</td></tr><tr><td></td><td></td><td>01</td><td>S17</td><td>264</td><td>022</td><td></td><td>6</td><td>08</td><td></td><td></td></tr></table>																			WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB			01	S17	264	022		6	08		
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																					
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB																																									
		01	S17	264	022		6	08																																							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	STATION NUMBER																														
		STD	0000	3373																																											
	127	OBS	0000	33732																																											
	127	OBS	0009	33771																																											
		STD	0010	3378																																											
		STD	0020	3383																																											
	127	OBS	0024	33847																																											
		STD	0030	3389																																											
	127	OBS	0048	33971																																											
		STD	0050	3397																																											
	127	OBS	0072	34002																																											
		STD	0075	3401																																											
	127	OBS	0096	34085																																											
		STD	0100	3409																																											
		STD	0125	3414																																											
	127	OBS	0145	34179																																											
		STD	0150	3421																																											
	127	OBS	0154	34243																																											

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT 1/10	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER																												
CTRY CODE	ID. NO.					10"	1"		MO	DAY			HR.1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT		PER	SEA	TYPE	AMT																								
31	702	HU	44330N	048500W	149 48	03 09 143	1966		028	0768	07	02			2		X6	5 8		0004																											
<table><tr><td colspan="2">WATER</td><td colspan="2">WIND</td><td colspan="2">BARO- METER</td><td colspan="2">AIR TEMP. °C</td><td rowspan="2">VIS. CODE</td><td rowspan="2">NO. OBS. DEPTHS</td><td rowspan="2">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>METER (mbs)</td><td>DRY BULB</td><td>WET BULB</td></tr><tr><td></td><td></td><td>02</td><td>S17</td><td>261</td><td>028</td><td></td><td></td><td>05</td><td></td><td></td></tr></table>																			WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS	COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB			02	S17	261	028			05		
WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																																					
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB																																									
		02	S17	261	028			05																																							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	STATION NUMBER																														
		STD	0000	0107	3358	2692	0011428	0000	14522																																						
		OBS	0000	0107	33577	2692			14522																																						
	143	STD	0010	0120	3366	2698	0010877	0011	14530																																						
		STD	0020	0132	3374	2703	0010347	0022	14539																																						
		STD	0030	0144	3381	2708	0009896	0032	14546																																						
		STD	0050	0167	3395	2718	0008996	0051	14562																																						
		STD	0075	0195	3411	2729	0007995	0072	14581																																						
	143	OBS	0091	0212	34200	2734			14592																																						
		STD	0100	0223	3423	2736	0007313	0091	14599																																						
		STD	0125	0251	3432	2741	0006674	0109	14616																																						
		STD	0150	0276	3441	2746	0006422	0126	14632																																						
		STD	0200	0319	3454	2752	0005867	0156	14661																																						
		STD	0250	0351	3463	2758	0005388	0184	14684																																						
	143	OBS	T0276	0364	34687	2760			14695																																						
		STD	0300	0365	3469	2760	0005270	0211	14699																																						
		STD	0400	0369	3469	2759	0005395	0264	14717																																						
	143	OBS	T0462	0371	34700	2760			14728																																						
		STD	0500	0373	3471	2761	0005378	0318	14736																																						
		STD	0600	0382	3472	2760	0005489	0373	14756																																						
	143	OBS	0678	0390	34742	2761			14773																																						

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	702	HU	4430 N	04834 W	149 48 03	09	172	1966			029		2560	07	20			5	X6	5 8		0005	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. 1m	DIR.	SPEED OF FORCE		ORY BULB	WET BULB											
									08	508	240	056	7					13					
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$		$\Sigma \Delta D$ OBS. M. $\times 10^3$		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C				
		STD	0000	0170	3372	2699	0010778		0000		14552												
172		OBS	0000	0170	33716	2699					14552												
172		OBS	0009	0196	33797	2703					14566												
		STD	0010	0196	3380	2704	0010326		0011		14566												
		STD	0020	0194	3388	2710	0009712		0021		14568												
172		OBS	0023	0194	33908	2712					14569												
		STD	0030	0210	3402	2720	0008771		0030		14579												
172		OBS	0045	0247	34232	2734					14600												
		STD	0050	0262	3430	2738	0007074		0046		14608												
172		OBS	0068	0306	34495	2750					14633												
		STD	0075	0320	3453	2751	0005859		0062		14641												
172		OBS	0092	0343	34603	2755					14654												
		STD	0100	0339	3461	2756	0005449		0076		14654												
172		STD	0125	0326	3465	2760	0005047		0089		14653												
		OBS	0140	0318	34666	2762					14652												
		STD	0150	0341	3468	2761	0004984		0102		14664												
172		OBS	T0176	0372	34702	2760					14682												
172		OBS	T0191	0372	34701	2760					14684												
		STD	0200	0373	3470	2760	0005159		0127		14686												
		STD	0250	0381	3472	2760	0005173		0153		14698												
		STD	0300	0390	3474	2761	0005192		0179		14710												
172		OBS	T0314	0393	34739	2761					14714												
		STD	0400	0418	3481	2764	0005028		0230		14739												
172		OBS	T0435	0424	34831	2765					14748												
		STD	0500	0423	3486	2767	0004812		0279		14759												
172		OBS	T0576	0422	34877	2769					14771												
		STD	0600	0420	3488	2769	0004727		0327		14774												
172		OBS	0693	0406	34880	2771					14784												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	702	HU	44 26 N	048 21 W	149	48	03	09	202	1966		030	2743	13	18				3	X6	5	8		0006
						WATER		WIND		AIR TEMP. °C		ND. OBS. DEPTHS		SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE	BARO- METER mmHg	DRY BULB	WET BULB	VIS. COE											
								29	504	240	078		5	13										
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C							
		STD	0000	0559	3444	2718	0008942	0000	14727															
202		OBS	0000	0559	34439	2718			14727															
		STD	0010	0557	3445	2719	0008849	0009	14728															
202		OBS	0012	0556	34454	2720			14728															
		STD	0020	0548	3447	2722	0008608	0018	14726															
202		OBS	0029	0543	34491	2724			14726															
		STD	0030	0543	3449	2724	0008394	0026	14726															
		STD	0050	0548	3453	2727	0008192	0043	14732															
202		OBS	0057	0550	34544	2728			14734															
		STD	0075	0537	3458	2732	0007726	0063	14732															
202		OBS	0086	0527	34589	2734			14730															
		STD	0100	0508	3458	2736	0007403	0082	14724															
202		OBS	0115	0497	34577	2737			14722															
		STD	0125	0507	3462	2739	0007144	0100	14729															
		STD	0150	0525	3470	2743	0006783	0117	14741															
202		OBS	0171	0532	34766	2747			14748															
		STD	0200	0524	3483	2753	0005862	0149	14751															
202		OBS	T0227	0516	34880	2758			14752															
		STD	0250	0500	3488	2760	0005269	0177	14750															
		STD	0300	0470	3488	2764	0004975	0202	14746															
		STD	0400	0422	3488	2769	0004527	0250	14742															
202		OBS	T0450	0404	34884	2771			14743															
		STD	0500	0397	3489	2772	0004297	0294	14748															
		STD	0600	0385	3489	2774	0004257	0337	14760															
202		OBS	T0668	0378	34897	2775			14768															
		STD	0700	0375	3490	2775	0004161	0379	14772															
		STD	0800	0368	3490	2776	0004170	0420	14786															
202		OBS	T0888	0363	34905	2777			14799															
		STD	0900	0363	3491	2777	0004161	0462	14801															
		STD	1000	0361	3491	2777	0004208	0504	14816															
		STD	1100	0359	3491	2778	0004253	0546	14832															
202		OBS	T1130	0358	34910	2778			14837															
		STD	1200	0356	3491	2778	0004277	0589	14848															
		STD	1300	0354	3492	2779	0004305	0632	14864															
202		OBS	1330	0353	34917	2779			14869															

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1' 10"	LONGITUDE ° 1' 10"	OBS. INDEX	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR	1/10		CRUISE NO.	STATION NUMBR			DIR	HGT	PER		SEA	TYPE		AMT
31	702	HU	4425 N	04805 W		149	48	03	09	239	1966		031		3200	12	19			3	X4	5	8	0007
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB												
								15	508	244	083		1	13										
MESSNGR TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDMALT-2107	Σ Δ D CYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	SCC							
		STD	0000	0508	3447	2727	0008139	0000	14706															
239		OBS	0000	0508	34469	2727			14706															
		STD	0010	0498	3448	2729	0007965	0008	14704															
239		OBS	0010	0498	34479	2729			14704															
		STD	0020	0498	3449	2730	0007695	0016	14706															
239		OBS	0025	0495	34491	2730			14705															
		STD	0030	0487	3450	2732	0007711	0024	14703															
		STD	0050	0452	3453	2738	0007132	0039	14692															
239		OBS	0052	0449	34533	2738			14691															
		STD	0075	0407	3455	2744	0006565	0056	14678															
239		OBS	0077	0405	34548	2744			14677															
		STD	0100	0398	3459	2748	0006174	0072	14679															
239		OBS	0103	0397	34592	2749			14679															
		STD	0125	0426	3466	2751	0005961	0087	14696															
		STD	0150	0454	3474	2754	0005686	0101	14712															
239		OBS	0154	0458	34754	2755			14715															
		STD	0200	0493	3489	2762	0005055	0128	14739															
239		OBS	T0206	0497	34910	2763			14742															
		STD	0250	0496	3493	2765	0004842	0153	14749															
		STD	0300	0492	3496	2767	0004668	0177	14756															
		STD	0400	0477	3500	2773	0004252	0221	14767															
239		OBS	T0412	0475	35010	2773			14768															
		STD	0500	0443	3499	2775	0004079	0263	14769															
		STD	0600	0416	3497	2776	0004049	0304	14774															
239		OBS	T0616	0413	34961	2776			14775															
		STD	0700	0404	3496	2777	0004046	0344	14785															
		STD	0800	0393	3495	2778	0004087	0385	14797															
239		OBS	T0822	0390	34949	2778			14800															
		STD	0900	0377	3493	2778	0004139	0426	14807															
		STD	1000	0365	3492	2778	0004159	0467	14818															
239		OBS	T1048	0361	34911	2778			14825															
		STD	1100	0358	3491	2778	0004234	0509	14832															
		STD	1200	0356	3491	2778	0004292	0552	14848															
239		OBS	1235	0356	34908	2778			14854															



TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	OBS INDIC	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HIGH	PER		SEA	TYPE		AMT
31	702	HU	44 23 N	04 754 W	14 9	47	03	10	04 0	1966		032	32 J0	12	19			3	X4	5	8	0008	
					WATER		WIND		BARO- METER		AIR TEMP. °C												
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER	DRY BULB	WET BULB	VIS. CODE											NO. OBS. DEPTHS
								13	512	230	078		1	13									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PD <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SIO <sub>4</sub> -Si μg - at/l	pH	SEC						
		STD	0000	0546	3434	2712	0009571	0000	14720														
040		OBS	0000	0546	34335	2712			14720														
		STD	0010	0492	3434	2718	0008935	0009	14700														
040		OBS	0010	0492	34341	2718			14700														
		STD	0020	0419	3434	2726	0008204	0018	14671														
040		OBS	0025	0402	34336	2728			14665														
		STD	0030	0437	3436	2726	0008232	0026	14680														
		STD	0050	0526	3444	2722	0008617	0043	14722														
040		OBS	0052	0530	34442	2722			14724														
		STD	0075	0520	3446	2724	0008452	0064	14723														
040		OBS	0077	0519	34458	2725			14723														
		STD	0100	0515	3446	2725	0008402	0085	14726														
040		OBS	0103	0513	34463	2726			14725														
		STD	0125	0441	3448	2735	0007491	0105	14699														
		STD	0150	0405	3449	2740	0007013	0123	14689														
040		OBS	0155	0404	34497	2740			14689														
		STD	0200	0504	3477	2751	0006077	0156	14742														
040		OBS	T0209	0519	34820	2753			14750														
		STD	0250	0501	3485	2758	0005505	0185	14750														
		STD	0300	0482	3488	2762	0005120	0212	14751														
		STD	0400	0449	3492	2769	0004555	0260	14754														
040		OBS	T0411	0446	34923	2770			14755														
		STD	0500	0427	3492	2772	0004387	0305	14761														
		STD	0600	0409	3492	2774	0004289	0348	14770														
040		OBS	T0615	0407	34922	2774			14772														
		STD	0700	0395	3491	2774	0004314	0391	14781														
		STD	0800	0384	3491	2775	0004279	0434	14793														
040		OBS	T0819	0382	34905	2775			14795														
		STD	0900	0376	3490	2776	0004320	0477	14806														
		STD	1000	0370	3490	2776	0004343	0520	14820														
040		OBS	T1044	0367	34902	2776			14826														
		STD	1100	0363	3490	2777	0004338	0564	14834														
		STD	1200	0357	3491	2778	0004319	0607	14848														
040		OBS	1225	0356	34909	2778			14852														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARDEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. ND.						10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	MAX. DEPTH OF S'AMPL'S				TYPE AMT			
																	DIR	HGT	PER		SEA	TYPE		AMT
31	702	HU	4420 N	04733 W		149	47	03	10	105	1966		033	3475	10	15			3	X5	2	8		0009
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)	DRY BULB	WET BULB												
								13	522	213	094							13						
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -H $\mu\text{g} \cdot \text{at/l}$	SI O <sub>4</sub> -S $\mu\text{g} \cdot \text{at/l}$	pH	3 CC							
		STD	0000	0591	3438	2710	0009760	0000	14739															
105		OBS	0000	0591	34380	2710			14739															
105		OBS	0007	0594	34400	2711			14742															
		STD	0010	0597	3440	2710	0009696	0010	14743															
105		OBS	0018	0604	34400	2710			14747															
		STD	0020	0604	3441	2710	0009724	0019	14748															
		STD	0030	0607	3444	2712	0009540	0029	14751															
105		OBS	0037	0608	34449	2713			14753															
		STD	0050	0596	3445	2714	0009372	0048	14750															
105		OBS	0056	0590	34449	2715			14749															
		STD	0075	0571	3444	2717	0009157	0071	14744															
105		OBS	0075	0571	34442	2717			14744															
		STD	0100	0594	3455	2723	0008660	0093	14759															
105		OBS	0111	0604	34586	2724			14765															
		STD	0125	0578	3461	2729	0008052	0114	14757															
105		OBS	0148	0541	34643	2737			14747															
		STD	0150	0540	3465	2737	0007332	0134	14747															
		STD	0200	0515	3476	2749	0006279	0168	14746															
		STD	0250	0496	3484	2757	0005521	0197	14748															
105		OBS	T0294	0483	34886	2763			14750															
		STD	0300	0483	3489	2763	0005086	0224	14751															
		STD	0400	0476	3489	2763	0005112	0275	14765															
105		OBS	0437	0472	34887	2764			14769															
		STD	0500	0462	3494	2769	0004665	0323	14776															
105		OBS	T0593	0445	34975	2774			14785															
		STD	0600	0443	3497	2774	0004326	0368	14785															
		STD	0700	0420	3495	2775	0004307	0412	14792															
105		OBS	T0784	0402	34934	2775			14798															
		STD	0800	0399	3493	2775	0004305	0455	14799															
		STD	0900	0379	3491	2776	0004310	0498	14807															
105		OBS	0953	0369	34901	2776			14812															

TABLE III.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT METER	MARGSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	702	HU	4415 N	04611 W	149	46	03	10	139	1966		034		3432	11	18			3	X3	4	6		0010
					WATER		WIND		AIR TEMP. °C															
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
							01	S15	183	122	106	7	13											
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 <sup>3</sup>		Σ Δ σ OYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>2</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S CC						
		STD	0000	0663	3440	2701	0010529		0000	14768														
139		OBS	0000	0663	34396	2701				14768														
139		OBS	0009	0661	34400	2702				14769														
		STD	0010	0667	3440	2701	0010558		0011	14771														
		STD	0020	0706	3441	2696	0011036		0021	14788														
139		OBS	0023	0712	34409	2696				14791														
		STD	0030	0689	3443	2701	0010657		0032	14784														
139		OBS	0045	0662	34474	2708				14776														
		STD	0050	0670	3449	2708	0009993		0053	14780														
139		OBS	0067	0680	34534	2710				14788														
		STD	0075	0668	3453	2711	0009707		0077	14784														
139		OBS	0089	0650	34529	2714				14779														
		STD	0100	0642	3457	2718	0009111		0101	14778														
		STD	0125	0624	3466	2727	0008248		0123	14776														
139		OBS	0134	0618	34682	2730				14776														
		STD	0150	0606	3471	2734	0007685		0143	14774														
139		OBS	T0185	0581	34773	2742				14771														
		STD	0200	0575	3480	2745	0006699		0179	14771														
		STD	0250	0555	3486	2752	0006073		0210	14772														
		STD	0300	0533	3491	2759	0005498		0239	14772														
139		OBS	T0357	0506	34938	2764				14771														
		STD	0400	0476	3493	2767	0004791		0291	14765														
		STD	0500	0422	3490	2770	0004501		0337	14759														
139		OBS	T0529	0410	34898	2772				14759														
		STD	0600	0393	3489	2773	0004354		0382	14763														
		STD	0700	0376	3488	2773	0004351		0425	14772														
139		OBS	T0714	0375	34874	2773				14774														
		STD	0800	0376	3489	2775	0004333		0469	14789														
		STD	0900	0377	3490	2775	0004357		0512	14806														
139		OBS	T0930	0377	34904	2776				14811														
		STD	1000	0375	3490	2776	0004395		0556	14822														
		STD	1100	0368	3490	2776	0004405		0600	14836														
139		OBS	1129	0366	34903	2777				14840														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° ' 1/10	TIDE INDICATOR	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOQ STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT			
31	702	HU	4408 N	04630 W		149	46	03	10	207	1966		035		3734	13	18			6	X3	3	8		0011
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	IMBAL		DRY BULB	WET BULB																
				14	S23	139		111	100	7	13														
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CUR								
		STD	0000	0895	3476	2695	0011102	0000	14862																
207		OBS	0000	0895	34755	2695			14862																
207		OBS	0008	0898	34752	2695			14864																
		STD	0010	0897	3476	2695	0011152	0011	14864																
		STD	0020	0892	3477	2697	0011000	0022	14864																
207		OBS	0022	0891	34771	2697			14864																
		STD	0030	0913	3483	2698	0010882	0033	14875																
207		OBS	0045	0921	34878	2701			14881																
		STD	0050	0896	3482	2700	0010735	0055	14871																
207		OBS	0068	0852	34750	2702			14857																
		STD	0075	0870	3483	2705	0010315	0081	14866																
207		OBS	0090	0898	34956	2711			14881																
		STD	0100	0881	3497	2714	0009494	0106	14876																
		STD	0125	0841	3498	2722	0008864	0129	14865																
207		OBS	0136	0616P	34982	2754P																			
		STD	0150	0804	3495	2725	0008587	0151	14855																
207		OBS	T0183	0758	34913	2729			14842																
		STD	0200	0737	3494	2734	0007790	0192	14837																
		STD	0250	0680	3499	2746	0006715	0228	14824																
207		OBS	T0269	0660	35000	2749			14819																
		STD	0300	0628	3498	2752	0006173	0260	14811																
207		OBS	0364	0571	34965	2758			14799																
		STD	0400	0543	3498	2763	0005226	0317	14793																
207		OBS	T0494	0486	35000	2771			14786																
		STD	0500	0485	3500	2771	0004492	0366	14786																
		STD	0600	0465	3499	2773	0004439	0410	14795																
		STD	0700	0447	3498	2774	0004405	0454	14804																
207		OBS	T0747	0439	34972	2774			14808																
		STD	0800	0430	3497	2775	0004377	0498	14813																
		STD	0900	0416	3496	2776	0004381	0542	14 24																
		STD	1000	0402	3495	2777	0004381	0586	14834																
		STD	1100	0391	3494	2777	0004412	0630	14846																
		STD	1200	0381	3493	2777	0004451	0674	14859																
207		OBS	1255	0376	34924	2777			14866																

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	702	HU	4403 N	04540 W		149	45	03	11	015	1966		036	3986	10	23			2	X6	5	8	0012				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. mi	DIR.	SPEED OF FORCE		DRY BULB	WET BULB															
								23	524	149	111	111	5	13													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ σ DTN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C										
		STD	0000	0627	3412	2684	0012155	0000	14750																		
	015	OBS	0000	0627	34118	2684			14750																		
	015	OBS	0008	0629	34121	2684			14752																		
		STD	0010	0628	3412	2685	0012143	0012	14752																		
		STD	0020	0623	3413	2686	0012038	0024	14752																		
	015	OBS	0021	0622	34131	2686			14752																		
		STD	0030	0590	3418	2694	0011284	0036	14741																		
	015	OBS	0040	0567	34238	2701			14734																		
		STD	0050	0560	3429	2706	0010132	0057	14733																		
	015	OBS	0054	0557	34310	2708			14733																		
	015	OBS	0073	0534	34369	2716			14728																		
		STD	0075	0534	3438	2717	0009193	0081	14728																		
		STD	0100	0539	3447	2723	0008605	0104	14736																		
	015	OBS	0104	0540	34475	2723			14737																		
		STD	0125	0506	3445	2725	0008404	0125	14726																		
	015	OBS	T0139	0488	34439	2727			14721																		
		STD	0150	0488	3444	2727	0008305	0146	14722																		
		STD	0200	0486	3446	2729	0008189	0187	14730																		
		STD	0250	0484	3448	2730	0008072	0228	14738																		
	015	OBS	0278	0483	34492	2731			14742																		
		STD	0300	0482	3450	2732	0007969	0268	14745																		
		STD	0400	0477	3452	2735	0007830	0347	14760																		
	015	OBS	0430	0475	34531	2735			14764																		
		STD	0500	0450	3476	2756	0005864	0415	14769																		
	015	OBS	0594	0430	34954	2774			14779																		
		STD	0600	0430	3496	2774	0004288	0466	14780																		
		STD	0700	0433	3497	2775	0004330	0509	14798																		
	015	OBS	T0789	0436	34980	2775			14814																		
		STD	0800	0435	3498	2775	0004364	0553	14815																		
		STD	0900	0415	3497	2777	0004295	0596	14823																		
	015	OBS	0954	0399	34957	2777			14825																		

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	702	HU	4657 N	04800 W		149	68	03	11	163	1966		013	0137	01	28	5	2		X1	3	6	0013				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (mi)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB															
								23	534	16	006	001	7	06													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-30°	Σ Δ σ DTN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	Si O <sub>4</sub> -Si μg - dl/l	pH	S C										
		STD	0000	0044	3329	2673	0013255	0000	14489																		
163		OBS	0000	0044	33291	2673			14489																		
		STD	0010	0047	3330	2673	0013222	0013	14492																		
163		OBS	0011	0047	33298	2673			14493																		
		STD	0020	0047	3330	2673	0013189	0026	14494																		
163		OBS	0028	0046	33304	2674			14495																		
		STD	0030	0051	3332	2675	0013067	0040	14498																		
		STD	0050	0092	3349	2686	0012002	0065	14522																		
163		OBS	0055	0098	33524	2688			14526																		
		STD	0075	0102	3363	2697	0011002	0093	14533																		
163		OBS	0082	0104	33681	2701			14535																		
		STD	0100	0134	3383	2711	0009691	0119	14554																		
163		OBS	0110	0159	33921	2716			14568																		

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	702	HU	4702 N	04744 W	149	77	03 11 181	1966		014		0172	01	28	6	2		X3	3	3	0014
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mba)	DRY BULB	WET BULB										
							23	S33	261	017	011	7	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ σ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	2	3			
		STD	0000	0049	3331	2674	0013151	0000	14492												
	181	OBS	0000	0049	33308	2674			14492												
	181	OBS	0009	0048	33308	2674			14493												
		STD	0010	0048	3331	2674	0013130	0013	14493												
		STD	0020	0048	3331	2674	0013128	0026	14495												
	181	OBS	0023	0048	33312	2674			14495												
		STD	0030	0044	3332	2675	0013053	0039	14495												
	181	OBS	0045	0041	33329	2676			14496												
		STD	0050	0042	3336	2678	0012712	0065	14498												
	181	OBS	0068	0053	33476	2687			14507												
		STD	0075	0062	3351	2689	0011677	0096	14513												
	181	OBS	0091	0084	33584	2694			14527												
		STD	0100	0096	3364	2698	0010889	0124	14534												
		STD	0125	0131	3380	2708	0009903	0150	14556												
	181	OBS	0136	0146	33890	2714			14566												

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1'	MO DAY HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
31	702	HU	4700 N	04730 W	149	77	03 11 200	1966		015		0210	02	21	3	3		X3	3	6	0015
					WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mba)	DRY BULB	WET BULB										
							24	S24	186	033	028	7	07								
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ σ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	2	3			
		STD	0000	0077	3342	2682	0012418	0000	14506												
	200	OBS	0000	0077	33424	2682			14506												
		STD	0010	0078	3343	2682	0012408	0012	14508												
	200	OBS	0010	0078	33426	2682			14508												
		STD	0020	0078	3343	2682	0012378	0025	14510												
	200	OBS	0027	0077	33432	2682			14511												
		STD	0030	0076	3350	2688	0011832	0037	14512												
		STD	0050	0067	3392	2722	0008586	0057	14517												
		STD	0075	0056	3427	2751	0005863	0075	14521												
	200	OBS	0080	0054	34325	2755			14521												
		STD	0100	0249	3444	2751	0005938	0090	14613												
	200	OBS	0105	0286	34471	2750			14630												
		STD	0125	0316	3457	2755	0005558	0105	14648												
		STD	0150	0349	3467	2760	0005136	0118	14667												
	200	OBS	0160	0361	34705	2761			14674												
	200	OBS	0184	0387	34771	2764			14690												



TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME IGMT		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
31	702	HU	4700 N	04715 W		149	77	03	11	222	1966	016	0638	06	22	3	4		X3	3	5		0016
						WATER		WIND		AIR TEMP. °C		SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS									
								22	525	193	017		6	11									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ σ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C C						
		STD	0000	0157	3378	2705	0010234	0000	14547														
	222	OBS	0000	0157	33776	2705			14547														
		STD	0010	0269	3432	2739	0006950	0009	14605														
	222	OBS	0010	0269	34321	2739			14605														
		STD	0020	0301	3444	2746	0006329	0015	14622														
	222	OBS	0027	0318	34507	2750			14632														
		STD	0030	0322	3453	2751	0005843	0021	14634														
		STD	0050	0342	3462	2756	0005364	0033	14647														
	222	OBS	0055	0346	34634	2757			14650														
		STD	0075	0351	3465	2758	0005243	0046	14656														
	222	OBS	0084	0354	34666	2759			14658														
		STD	0100	0361	3470	2761	0004984	0059	14665														
	222	OBS	0111	0366	34724	2762			14669														
		STD	0125	0372	3474	2763	0004812	0071	14674														
		STD	0150	0380	3477	2765	0004689	0083	14682														
	222	OBS	0169	0384	34776	2765			14687														
		STD	0200	0387	3478	2765	0004731	0106	14693														
	222	OBS	T0225	0389	34785	2765			14698														
		STD	0250	0392	3479	2765	0004754	0130	14704														
		STD	0300	0397	3481	2766	0004704	0154	14714														
	222	OBS	T0348	0399	34821	2767			14723														
		STD	0400	0397	3483	2767	0004689	0201	14731														
	222	OBS	T0466	0395	34829	2768			14741														
		STD	0500	0398	3484	2768	0004681	0247	14748														
	222	OBS	0576	0409	34869	2769			14766														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
31	702	HU	4659 N	04659 W		149	66	03	12	025	1966	017	1116	03	24	2	3		X1	813	0017	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mb)	DRY BULB	WET BULB										
								22	515	196	063	051	7	08								
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C C				
		STD	0000	0177	3388	2711	0009620		0000	14557												
	025	OBS	0000	0177	33875	2711				14557												
		STD	0010	0180	3389	2712	0009531		0010	14560												
	025	OBS	0013	0181	33911	2714				14561												
		STD	0020	0210	3406	2723	0008464		0019	14577												
		STD	0030	0246	3423	2734	0007461		0027	14597												
	025	OBS	0033	0255	34276	2737				14602												
		STD	0050	0291	3445	2748	0006187		0040	14623												
	025	OBS	0064	0310	34539	2753				14635												
		STD	0075	0311	3454	2753	0005706		0055	14637												
	025	OBS	0096	0314	34559	2754				14642												
		STD	0100	0317	3457	2755	0005549		0069	14644												
		STD	0125	0338	3464	2758	0005236		0083	14658												
	025	OBS	0127	0340	34646	2759				14659												
		STD	0150	0362	3470	2761	0005037		0095	14673												
	025	OBS	0190	0387	34766	2764				14691												
		STD	0200	0388	3477	2764	0004826		0120	14693												
		STD	0250	0390	3478	2764	0004822		0144	14703												
	025	OBS	T0252	0390	34778	2764				14703												

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH INCH	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	702	HU	4644 N	04702 W		149	67	03	12	055	1966		018	1185	11	24	2	2		X1	3	3	0018	
						WATER		WIND		AIR TEMP. °C														
						COLOR CODE	TRANS. mi	DIR.	SPEED OF FORCE	BARO- METER (mb)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
										19 <td>S10</td> <td>196</td> <td>038</td> <td>037</td> <td>7</td> <td>10</td> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th> <th colspan="2"></th>	S10	196	038	037	7	10								
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> <sup>2</sup>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S CODE							
		STD	0000	0362	3460	2753	0005675	0000	14647															
055		OBS	0000	0362	34598	2753			14647															
		STD	0010	0361	3460	2753	0005657	0006	14648															
		STD	0020	0360	3460	2753	0005654	0011	14649															
055		OBS	0025	0359	34605	2754			14650															
		STD	0030	0360	3461	2754	0005617	0017	14651															
		STD	0050	0362	3461	2754	0005634	0028	14655															
055		OBS	0051	0362	34609	2754			14656															
		STD	0075	0366	3464	2756	0005461	0042	14662															
		STD	0100	0373	3468	2758	0005251	0055	14669															
055		OBS	0102	0374	34684	2758			14670															
		STD	0125	0386	3473	2761	0005027	0068	14680															
		STD	0150	0396	3476	2762	0004926	0081	14688															
055		OBS	T0157	0398	34773	2763			14691															
		STD	0200	0400	3480	2765	0004711	0105	14699															
		STD	0250	0402	3483	2767	0004554	0128	14708															
055		OBS	T0263	0402	34831	2767			14710															
		STD	0300	0400	3484	2768	0004512	0151	14716															
055		OBS	T0372	0398	34860	2770			14727															
		STD	0400	0400	3486	2770	0004460	0196	14732															
		STD	0500	0405	3485	2769	0004654	0241	14751															
055		OBS	0592	0410	34850	2768			14768															
		STD	0600	0408	3485	2768	0004798	0288	14769															
		STD	0700	0383	3487	2772	0004467	0335	14775															
		STD	0800	0366	3489	2776	0004221	0378	14785															
055		OBS	T0812	0364	34892	2776			14786															
		STD	0900	0363	3489	2776	0004239	0420	14800															
		STD	1000	0361	3490	2776	0004291	0463	14816															
055		OBS	1079	0360	34898	2777			14829															

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FOOT	MARDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.						10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	702	HU	4701 N	04630 W		149	76	03	12	086	1966		019	0365	03	19	2	3		X1	3	3	0019
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR	TRANS.	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
		CODE	(m)																				
						14	S15	196	039		6	09											
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - \text{dl/l}$	TOTAL-P $\mu g - \text{dl/l}$	NO <sub>2</sub> -N $\mu g - \text{dl/l}$	NO <sub>3</sub> -N $\mu g - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu g - \text{dl/l}$	pH	$\frac{1}{2}C$						
		STD	0000	0377	3455	2747	0006201	0000	14653														
086		OBS	0000	0377	34547	2747			14653														
		STD	0010	0378	3455	2747	0006233	0006	14655														
086		OBS	0012	0378	34545	2747			14655														
		STD	0020	0379	3455	2747	0006233	0012	14657														
086		OBS	0029	0379	34549	2747			14658														
		STD	0030	0379	3455	2747	0006224	0019	14659														
		STD	0050	0373	3457	2750	0006011	0031	14660														
086		OBS	0056	0372	34580	2750			14660														
		STD	0075	0373	3458	2750	0005955	0046	14664														
086		OBS	0085	0373	34584	2750			14666														
		STD	0100	0372	3459	2751	0005935	0061	14667														
086		OBS	0114	0370	34590	2751			14669														
		STD	0125	0375	3461	2752	0005818	0075	14673														
		STD	0150	0387	3466	2755	0005585	0090	14683														
086		OBS	0171	0396	34707	2758			14691														
		STD	0200	0410	3480	2764	0004819	0116	14703														
086		OBS	T0228	0416	34859	2768			14711														
		STD	0250	0408	3486	2769	0004380	0139	14711														
		STD	0300	0391	3487	2772	0004172	0160	14713														
086		OBS	0341	0377	34881	2774			14713														

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARS DEN SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
31	702	HU	4700 N	04610 W		149	76	03	12	096	1966		020		0301	03	11	2	3		X 3	5	8	0020	

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT MOON	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE	
31	702	HU	4740 N	04610 W		149	76	03	12	150	1966	022	1097	10	13	4			X7	5	8	0022
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB										
								13	S20	125	039							5	13			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	S C					
		STD	0000	0373	3458	2750	0005914	0000	14652													
150		OBS	0000	0373	34580	2750			14652													
150		OBS	0009	0372	34574	2750			14653													
		STD	0010	0372	3457	2750	0005960	0006	14653													
		STD	0020	0373	3458	2750	0005960	0012	14655													
150		OBS	0023	0373	34577	2750			14655													
		STD	0030	0374	3458	2750	0005950	0018	14657													
150		OBS	0045	0375	34582	2750			14660													
		STD	0050	0375	3459	2750	0005940	0030	14661													
150		OBS	0068	0375	34597	2751			14664													
		STD	0075	0378	3463	2754	0005653	0044	14667													
150		OBS	0091	0362	34697	2759			14672													
		STD	0100	0383	3470	2759	0005195	0058	14674													
		STD	0125	0384	3473	2761	0005010	0071	14679													
150		OBS	0136	0385	34742	2762			14681													
		STD	0150	0402	3478	2763	0004837	0083	14691													
150		OBS	T0182	0426	34842	2765			14707													
		STD	0200	0417	3484	2766	0004571	0106	14707													
		STD	0250	0399	3485	2769	0004408	0129	14707													
150		OBS	T0273	0393	34847	2769			14709													
		STD	0300	0390	3485	2770	0004331	0151	14712													
150		OBS	T0354	0385	34857	2771			14719													
		STD	0400	0361	3486	2772	0004254	0194	14725													
		STD	0500	0374	3487	2773	0004195	0236	14738													
150		OBS	T0541	0372	34878	2774			14744													
		STD	0600	0370	3488	2774	0004159	0278	14753													
		STD	0700	0366	3489	2775	0004172	0319	14768													
150		OBS	T0736	0364	34887	2775			14774													
		STD	0800	0361	3489	2776	0004165	0361	14783													
		STD	0900	0356	3489	2777	0004192	0403	14797													
150		OBS	0961	0353	34895	2777			14806													

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
31	702	HU	4756 N	04610 W		149	76	03	12	175	1966		023		1097	10	15	2	3		X7	5	8		0023	
						WATER		WIND		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. mm	CUR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS CODE													
								13	S08	105	033		5	12												
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ σ CYN, M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	S C									
		STD	0000	0370	3454	2748	0006165	0000	14650																	
175		OBS	0000	0370	34543	2748			14650																	
175		OBS	0009	0371	34566	2749			14652																	
		STD	0010	0371	3457	2750	0005979	0006	14652																	
		STD	0020	0371	3457	2750	0005991	0012	14654																	
		STD	0030	0372	3457	2750	0006003	0018	14656																	
175		OBS	0047	0372	34578	2750			14659																	
		STD	0050	0372	3458	2750	0005965	0030	14659																	
175		OBS	0070	0373	34578	2750			14663																	
		STD	0075	0373	3458	2750	0005982	0045	14664																	
175		OBS	0094	0374	34593	2751			14668																	
		STD	0100	0376	3461	2752	0005806	0060	14670																	
		STD	0125	0382	3468	2757	0005362	0074	14677																	
175		OBS	0141	0383	34703	2759			14681																	
		STD	0150	0380	3471	2760	0005140	0087	14681																	
175		OBS	0189	0375	34719	2761			14685																	
		STD	0200	0382	3472	2760	0005130	0112	14690																	
		STD	0250	0405	3472	2758	0005414	0139	14708																	
175		OBS	T0284	0411	34745	2759			14717																	
		STD	0300	0407	3476	2761	0005184	0165	14718																	
175		OBS	T0382	0386	34865	2771			14724																	
		STD	0400	0385	3487	2772	0004222	0212	14726																	
		STD	0500	0378	3487	2773	0004239	0255	14740																	
175		OBS	T0576	0374	34877	2774			14751																	
		STD	0600	0373	3488	2774	0004199	0297	14755																	
		STD	0700	0370	3489	2775	0004180	0339	14770																	
175		OBS	T0774	0367	34894	2776			14781																	
		STD	0800	0366	3489	2776	0004192	0381	14785																	
		STD	0900	0361	3489	2776	0004220	0423	14800																	
175		OBS	0994	0355	34893	2777			14813																	

TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDCTR	MARDEN SQUARE	STATION TIME IGMT1		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.						MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT PER		SEA	TYPE		AMT
31	702	HU	4820 N	04610 W		149 86	03 12	199	1966		024	1097	11	03	3	3		X7	5 8		0024
						WATER		WIND		BARO- METER (mbat)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (MI)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
								19	515	088	022		3	13							
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S CC				
		STD	0000	0356	3463	2755	0005415	0000	14645												
	199	OBS	0000	0356	34625	2755			14645												
		STD	0010	0360	3465	2757	0005288	0005	14649												
	199	OBS	0010	0360	34648	2757			14649												
		STD	0020	0364	3466	2757	0005282	0011	14652												
	199	OBS	0025	0365	34659	2757			14653												
		STD	0030	0366	3466	2757	0005268	0016	14654												
		STD	0050	0368	3466	2757	0005306	0026	14659												
	199	OBS	0052	0368	34661	2757			14659												
		STD	0075	0372	3467	2757	0005294	0040	14665												
	199	OBS	0077	0373	34672	2757			14665												
		STD	0100	0385	3471	2759	0005144	0053	14675												
	199	OBS	0104	0386	34721	2760			14676												
		STD	0125	0387	3474	2761	0004960	0065	14680												
		STD	0150	0388	3476	2763	0004843	0078	14685												
	199	OBS	0156	0388	34766	2763			14686												
		STD	0200	0381	3477	2764	0004745	0102	14690												
	199	OBS	T0208	0380	34771	2765			14691												
		STD	0250	0389	3479	2765	0004723	0125	14702												
		STD	0300	0395	3481	2766	0004661	0149	14713												
	199	OBS	T0312	0396	34819	2767			14716												
		STD	0400	0390	3482	2767	0004657	0195	14728												
	199	OBS	0416	0389	34819	2768			14730												
		STD	0500	0393	3485	2770	0004551	0241	14746												
		STD	0600	0398	3487	2771	0004549	0287	14765												
	199	OBS	T0625	0399	34875	2771			14770												
		STD	0700	0390	3488	2772	0004479	0332	14778												
		STD	0800	0381	3489	2774	0004393	0376	14791												
	199	OBS	0832	0378	34894	2775			14796												
		STD	0900	0373	3489	2775	0004359	0420	14805												
		STD	1000	0369	3490	2776	0004391	0464	14820												
	199	OBS	1059	0367	34895	2776			14829												



TABLE III.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DUFF INCH	MARSEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT	
31	702	HU	4835 N	04610 W		149	86	03	12	224	1966		025	2012	13	04	6	4		X7	5	8	0025
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH'S	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																
					19	S17	075	017		6	13												
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^7$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C C						
		STD	0000	0391	3474	2761	0004899	0000	14661														
224		OBS	0000	0391	34738	2761			14661														
		STD	0010	0398	3476	2762	0004842	0005	14666														
224		OBS	0010	0398	34756	2762			14666														
		STD	0020	0398	3475	2761	0004867	0010	14668														
224		OBS	0026	0398	34752	2761			14669														
		STD	0030	0398	3475	2761	0004886	0015	14669														
		STD	0050	0399	3476	2762	0004874	0024	14673														
224		OBS	0052	0399	34758	2762			14674														
		STD	0075	0399	3476	2762	0004884	0037	14677														
224		OBS	0079	0399	34760	2762			14678														
		STD	0100	0400	3476	2762	0004887	0049	14682														
224		OBS	0106	0400	34765	2762			14683														
		STD	0125	0393	3477	2763	0004812	0061	14683														
		STD	0150	0388	3477	2764	0004755	0073	14685														
224		OBS	0158	0387	34773	2764			14686														
		STD	0200	0394	3481	2766	0004578	0096	14696														
224		OBS	0211	0396	34817	2767			14699														
		STD	0250	0396	3483	2768	0004496	0119	14706														
		STD	0300	0396	3485	2769	0004395	0141	14714														
		STD	0400	0396	3488	2772	0004266	0184	14731														
224		OBS	T0422	0396	34887	2772			14735														
		STD	0500	0389	3489	2773	0004209	0227	14745														
		STD	0600	0382	3489	2774	0004224	0269	14759														
224		OBS	T0636	0379	34894	2775			14763														
		STD	0700	0375	3489	2775	0004206	0311	14772														
		STD	0800	0369	3489	2776	0004226	0353	14786														
224		OBS	T0850	0366	34894	2776			14793														
		STD	0900	0363	3490	2776	0004228	0396	14801														
		STD	1000	0357	3490	2777	0004220	0438	14815														
224		OBS	T1082	0353	34902	2778			14827														
		STD	1100	0352	3490	2778	0004207	0480	14829														
		STD	1200	0349	3492	2779	0004163	0522	14845														
224		OBS	1276	0348	34925	2780			14858														

TABLE IV. Observed and interpolated oceanographic data taken by USCGC EVERGREEN on North Atlantic Standard Monitoring Sections 2, 3, 4, 5 and 6, 25 October, 13 November 1966; prepared from NODC listing No. 31-8007.

REFERENCE	SHIP	LATITUDE	LONGITUDE	DRIFT	MARS DEN	STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD		NODC													
						ICR	NO.	CODE	LAT		LONG	MO			DAY	HR./10	CRUISE	STATION		TO	OF		DIR.	HGT	PER	SEA	TYPE	AMT	NUMBER						
318007	EV	3505 N	07506 W		116	55	10	25	029	1966		020	0545	05	36	1	2		X1	0	3		0031												
				WATER		WIND		BARO-		AIR TEMP. °C		VIS.		NO. OBS.		SPECIAL																			
				COLOR		TRANS.		DIR.		SPEED		OR		METER		CRY		WET		BULB		BULB		CODE		DEPTHS		OBSERVATIONS							
				DT		SD		35		512		186		217		211		8		24															
MESSAGE		CAST		CARD		DEPTH (m)		T °C		S ‰		SIGMA-T		SPECIFIC VOLUME		Σ Δ ρ		SOUND		O <sub>2</sub> ml/l		PO <sub>4</sub> -P		TOTAL-P		NO <sub>2</sub> -N		NO <sub>3</sub> -N		SiO <sub>4</sub> -Si		pH		S	
TIME		NO.		TYPE										ANOMALY-20°		dyn. M.		VELOCITY				μg - at/l		μg - at/l		μg - at/l		μg - at/l		μg - at/l		C			
HR 1/10																X 10 <sup>3</sup>																			
				STD		0000		2558		3592		2388		0040375		0000		15372																	
029				OBS		0000		2558		35917		2388						15372																	
				STD		0010		2558		3592		2388		0040423		0040		15374																	
				OBS		0010		2558		35916		2388						15374																	
				STD		0020		2544		3592		2392		0040052		0081		15372																	
001				OBS		0020		2544		35916		2392						15372																	
				OBS		0025		2520		35936		2401						15368																	
				STD		0030		2478		3596		2415		0037843		0120		15359																	
				OBS		0030		2478		35961		2415						15359																	
				OBS		0035		2340		36036		2462						15327																	
				STD		0050		2295		3628		2493		0030486		0188		15321																	
				OBS		0050		2295		36276		2493						15321																	
				STD		0075		1987		3636		2585		0021879		0253		15246																	
				OBS		0075		1987		36356		2585						15246																	
				STD		0100		1699		3624		2649		0015887		0301		15167																	
				OBS		0105		1662		36215		2655						15156																	
				STD		0125		1586		3610		2664		0014463		0339		15135																	
				OBS		0125		1586		36099		2664						15135																	
				STD		0150		1507		3592		2668		0014167		0374		15112																	
				OBS		0150		1507		35916		2668						15112																	
				OBS		0188		1368		35806		2689						15072																	
				STD		0200		1257		3564		2699		0011306		0438		15035																	
				OBS		0200		1257		35636		2699						15035																	
				OBS		0225		1181		35521		2705						15012																	
				STD		0250		1067		3536		2713		0009977		0491		14974																	
				OBS		0250		1067		35361		2713						14974																	
				OBS		0285		0987		35225		2717						14949																	
				STD		0300		0909		3514		2723		0009105		0539		14921																	
				OBS		0300		0909		35136		2723						14921																	
				OBS		0350		0810		35061		2733						14891																	
				OBS		0380		0800		35115		2738						14893																	
				STD		0400		0733		3507		2745		0007077		0620		14870																	
				OBS		0400		0733		35074		2745						14870																	
				OBS		0435		0646		35055		2756						14841																	
				OBS		0475		0488		34961		2768						14783																	
				STD		0500		0480		3496		2768		0004759		0679		14784																	
				OBS		0500		0480		34956		2768						14784																	
				OBS		0540		0472		34955		2769						14787																	

TABLE IV.—Continued

REFERENCE CTRY CODE	SHIP NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER					
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER		DIR.	HGT	PER	SEA		TYPE	AMT						
31	8007	EV	3449 N	07435 W		116	44	10	25	071	1966		021	3035	13	33	3	2		X1	0	3	0032				
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
						OT	SD	01	S18		207	244					222	7	29								
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°		Σ Δ σ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH										
		STD	0000	2665	3607	2366	0042447		0000	15398																	
	071	OBS	0000	2665	36074	2366				15398																	
		STD	0010	2669	3606	2364	0042696		0043	15400																	
		OBS	0010	2669	36062	2364				15400																	
		STD	0020	2669	3606	2364	0042738		0085	15402																	
	002	OBS	0020	2669	36062	2364				15402																	
		OBS	0025	2665	36063	2365				15402																	
		STD	0030	2661	3607	2367	0042515		0128	15402																	
		OBS	0030	2661	36065	2367				15402																	
		STD	0050	2652	3607	2369	0042326		0213	15403																	
		OBS	0050	2652	36065	2369				15403																	
		STD	0075	2648	3612	2375	0041921		0318	15407																	
		OBS	0075	2648	36119	2375				15407																	
		OBS	0085	2580	36300	2410				15395																	
		OBS	0090	2598	36383	2410				15401																	
		STD	0100	2555	3643	2427	0037030		0417	15393																	
		OBS	0100	2555	36427	2427				15393																	
		STD	0125	2411	3658	2482	0031863		0503	15365																	
		OBS	0125	2411	36578	2482				15365																	
		STD	0150	2286	3670	2529	0027549		0577	15340																	
		OBS	0150	2286	36704	2529				15340																	
		OBS	0170	2203	36745	2555				15323																	
		STD	0200	2074	3671	2589	0022000		0701	15294																	
		OBS	0200	2074	36712	2589				15294																	
		STD	0250	1926	3656	2616	0019512		0805	15260																	
		STD	0300	1752	3634	2643	0017092		0896	15216																	
		OBS	0300	1752	36336	2643				15216																	
		STD	0400	1323	3570	2691	0012662		1045	15091																	
		OBS	0400	1323	35701	2691				15091																	
		STD	0500	1107	3544	2712	0010696		1162	15030																	
		OBS	0500	1107	35440	2712				15030																	
		OBS	0560	0916	35155	2723				14967																	
		STD	0600	0879	3515	2729	0009142		1261	14960																	
		OBS	0600	0879	35146	2729				14960																	
		OBS	0630	0870	35108	2727				14961																	
		OBS	0678	0761	35026	2737				14926																	
		STD	0700	0766	3504	2737	0008353		1349	14932																	
		OBS	0700	0766	35036	2737				14932																	
		STD	0800	0553	3504	2766	0005453		1418	14864																	
		OBS	0800	0553	35036	2766				14864																	
		OBS	0850	0491	35026	2773				14847																	
		STD	0900	0491	3503	2773	0004774		1469	14855																	
		OBS	0900	0491	35034	2773				14855																	
		STD	1000	0448	3500	2776	0004561		1515	14854																	
		OBS	1000	0448	35003	2776				14854																	
		STD	1100	0427	3500	2778	0004448		1560	14862																	
		OBS	1100	0427	34996	2778				14862																	
		STD	1200	0410	3499	2779	0004403		1605	14871																	
		OBS	1200	0410	34986	2779				14871																	
		STD	1300	0400	3498	2779	0004390		1649	14884																	
		OBS	1300	0400	34983	2779				14884																	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	ORIG. INCH	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	8007	EV	3436 N	07408 W		116	44	10	25	101	1966		022	3658	15	33	1	2		X1	0	3	0033			
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						DT	SD	03	506		166	240					220	7	26							
MESSAGE TIME HR. 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH									
		STD	0000	2695	3607	2356	0043389		0000	15405																
101		OBS	0000	2695	36070	2356				15405																
		STD	0010	2695	3607	2356	0043431		0043	15406																
		OBS	0010	2695	36070	2356				15406																
		STD	0020	2695	3607	2356	0043473		0087	15408																
002		OBS	0020	2695	36070	2356				15408																
		OBS	0025	2695	36070	2356				15409																
		STD	0030	2695	3607	2356	0043514		0130	15410																
		OBS	0030	2695	36070	2356				15410																
		STD	0050	2695	3607	2356	0043598		0417	15413																
		OBS	0050	2695	36070	2356				15413																
		STD	0075	2695	3607	2356	0043702		0327	15417																
		OBS	0075	2695	36070	2356				15417																
		STD	0100	2560	3638	2422	0037552		0428	15394																
		OBS	0100	2560	36375	2422				15394																
		STD	0125	2452	3656	2468	0033197		0517	15375																
		OBS	0125	2452	36556	2468				15375																
		STD	0150	2254	3673	2540	0026461		0591	15333																
		OBS	0150	2254	36733	2540				15333																
		OBS	0160	2171	36753	2565				15313																
		STD	0200	2000	3668	2606	0020305		0708	15274																
		OBS	0200	2000	36683	2606				15274																
		STD	0250	1884	3658	2629	0018329		0805	15249																
		OBS	0260	1869	36575	2632				15246																
		STD	0300	1839	3657	2639	0017494		0894	15244																
		OBS	0300	1839	36568	2639				15244																
		STD	0400	1758	3647	2652	0016573		1065	15236																
		OBS	0400	1758	36474	2652				15236																
		STD	0500	1689	3635	2659	0016215		1428	15230																
		OBS	0500	1689	36345	2659				15230																
		STD	0600	1460	3594	2680	0014302		1381	15171																
		OBS	0600	1460	35944	2680				15171																
		STD	0700	1188	3556	2706	0011857		1512	15092																
		OBS	0700	1188	35555	2706				15092																
		STD	0800	0957	3525	2724	0010078		1622	15023																
		OBS	0800	0957	35251	2724				15023																
		STD	0900	0743	3509	2745	0007967		1712	14957																
		OBS	0900	0743	35086	2745				14957																
		STD	1000	0590	3505	2762	0006134		1782	14912																
		OBS	1000	0590	35048	2762				14912																
		STD	1100	0518	3504	2771	0005335		1840	14900																
		OBS	1100	0518	35038	2771				14900																
		STD	1200	0467	3502	2775	0004908		1891	14895																
		OBS	1200	0467	35018	2775				14895																
		STD	1300	0450	3502	2777	0004750		1939	14905																
		OBS	1300	0450	35023	2777				14905																
		STD	1400	0434	3502	2778	0004696		1986	14915																
		OBS	1400	0434	35015	2778				14915																
		STD	1500	0412	3500	2780	0004600		2033	14923																
		OBS	1500	0412	35001	2780				14923																

TABLE IV.—Continued

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO <sub>2</sub> -N $\mu g - \text{at/l}$	NO <sub>3</sub> -N $\mu g - \text{at/l}$	Si O <sub>4</sub> -Si $\mu g - \text{at/l}$	pH	S C
141		STD	0000	2401	3634	2467	0032767	0000	15340								
		OBS	0000	2401	36343	2467			15340								
		STD	0010	2388	3634	2471	0032446	0033	15338								
002		OBS	0010	2388	36342	2471			15338								
		STD	0020	2380	3634	2474	0032268	0065	15338								
		OBS	0020	2380	36341	2474			15338								
		OBS	0025	2380	36341	2474			15339								
		STD	0030	2380	3634	2474	0032308	0097	15340								
		OBS	0030	2380	36341	2474			15340								
		STD	0050	2380	3634	2473	0032395	0162	15343								
		OBS	0050	2380	36340	2473			15343								
		STD	0075	2380	3634	2473	0032495	0243	15347								
		OBS	0075	2380	36340	2473			15347								
		OBS	0085	2380	36341	2474			15349								
		STD	0100	2125	3664	2569	0023460	0313	15290								
		OBS	0100	2125	36642	2569			15290								
		STD	0125	1985	3668	2610	0019706	0367	15257								
		OBS	0125	1985	36675	2610			15257								
		STD	0150	1905	3664	2627	0018091	0414	15239								
		OBS	0150	1905	36635	2627			15239								
		STD	0200	1839	3660	2641	0016948	0502	15228								
		OBS	0200	1839	36595	2641			15228								
		STD	0250	1820	3659	2646	0016701	0586	15231								
		STD	0300	1801	3658	2650	0016498	0669	15233								
		OBS	0300	1801	36579	2650			15233								
		STD	0400	1765	3651	2653	0016457	0834	15238								
		OBS	0400	1765	36513	2653			15238								
		STD	0500	1705	3639	2658	0016300	0997	15236								
		OBS	0500	1705	36385	2658			15236								
		STD	0600	1541	3609	2673	0015041	1154	15199								
	OBS	0600	1541	36086	2673			15199									
	STD	0700	1341	3575	2691	0013487	1297	15147									
	OBS	0700	1341	35750	2691			15147									
	STD	0800	1120	3542	2709	0011757	1423	15084									
	OBS	0800	1120	35424	2709			15084									
	STD	0900	0875	3518	2732	0009400	1529	15008									
	OBS	0900	0875	35180	2732			15008									
	STD	1000	0718	3511	2750	0007539	1614	14964									
	OBS	1000	0718	35114	2750			14964									
	STD	1100	0580	3505	2764	0006087	1682	14925									
	OBS	1100	0580	35053	2764			14925									
	STD	1200	0517	3505	2772	0005321	1739	14916									
	OBS	1200	0517	35054	2772			14916									
	STD	1300	0470	3502	2775	0005055	1791	14913									
	OBS	1300	0470	35018	2775			14913									
	STD	1400	0445	3501	2777	0004894	1840	14920									
	OBS	1400	0445	35008	2777			14920									
	STD	1500	0426	3501	2779	0004715	1888	14929									
	OBS	1500	0426	35011	2779			14929									

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DEPTH M	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRZ CODE	ID. NO.					10"	1"	MO	DAY	HR.		1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE
318007		EV	3400 N	07316 W		116	43	10	25	174	1966		024	4480	15	11	3	4		X1	0	3	0035
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	OIR.	SPEED OF FORCE			DRY BULB	WET BULB														
		DT	SO	03	SO3			283	267														
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH					
		STO	0000	2428	3628	2455		0033988		0000	15346												
	174	OBS	0000	2428	36280	2455					15346												
		STO	0010	2409	3628	2461		0033466		0034	15343												
		OBS	0010	2409	36283	2461					15343												
		STO	0020	2397	3629	2465		0033123		0067	15341												
	002	OBS	0020	2397	36289	2465					15341												
		OBS	0025	2393	36323	2468					15342												
		STO	0030	2400	3642	2473		0032340		0100	15345												
		OBS	0030	2400	36415	2473					15345												
		OBS	0040	2417	36480	2473					15352												
		STO	0050	2386	3652	2485		0031297		0163	15346												
		OBS	0050	2386	36516	2485					15346												
		STO	0075	2050	3667	2592		0021183		0229	15267												
		OBS	0075	2050	36674	2592					15267												
		OBS	0082	1998	36686	2607					15254												
		STO	0100	1955	3667	2617		0018890		0279	15245												
		OBS	0100	1955	36671	2617					15245												
		STO	0125	1912	3666	2628		0017978		0325	15237												
		OBS	0125	1912	36662	2628					15237												
		STO	0150	1873	3662	2635		0017394		0369	15230												
		OBS	0150	1873	36623	2635					15230												
		STO	0200	1832	3658	2642		0016866		0455	15226												
		OBS	0200	1832	36583	2642					15226												
		STO	0250	1814	3658	2646		0016630		0539	15229												
		STO	0300	1796	3656	2650		0016494		0622	15232												
		OBS	0300	1796	36563	2650					15232												
		STO	0400	1759	3650	2654		0016423		0786	15237												
		OBS	0400	1759	36498	2654					15237												
		STO	0500	1704	3639	2659		0016269		0950	15235												
		OBS	0500	1704	36366	2659					15235												
		STO	0600	1546	3611	2674		0014956		1106	15200												
		OBS	0600	1546	36113	2674					15200												
		STO	0700	1350	3577	2690		0013528		1248	15150												
		OBS	0700	1350	35770	2690					15150												
		STO	0800	1140	3547	2709		0011785		1375	15091												
		OBS	0800	1140	35472	2709					15091												
		STO	0900	0911	3521	2729		0009766		1482	15022												
		OBS	0900	0911	35213	2729					15022												
		STO	1000	0711	3507	2748		0007724		1570	14961												
		OBS	1000	0711	35074	2748					14961												
		STO	1100	0543	3498	2763		0006103		1639	14909												
		OBS	1100	0543	34980	2763					14909												
		STO	1200	0489	3499	2770		0005430		1697	14904												
		OBS	1200	0489	34987	2770					14904												
		STO	1300	0459	3500	2774		0005053		1749	14908												
		OBS	1300	0459	34998	2774					14908												
		STO	1400	0444	3500	2776		0004939		1799	14919												
		OBS	1400	0444	35000	2776					14919												
		STO	1500	0436	3501	2777		0004894		1848	14933												
		OBS	1500	0436	35005	2777					14933												



TABLE IV.—Continued

REFERENCE CTRY CODE	SHIP NO.	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER				
					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
					10"	1"	MO	DAY	HR./10																	
318007	EV	3338 N	07253 W		116	32	10	25	214	1966		025	4718	15	11	2	2		X1	013		0036				
					WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
					COLOR CODE	TRANS. mm	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
					DT	SD	03	S03	146	240	220	8					27									
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	°C								
		STO	0000	2509	3647	2444	0034979	0000	15367																	
214		OBS	0000	2509	36467	2444			15367																	
		STO	0010	2503	3647	2446	0034838	0035	15367																	
		OBS	0010	2503	36468	2446			15367																	
		STO	0020	2499	3648	2448	0034676	0070	15368																	
002		OBS	0020	2499	36480	2448			15368																	
		OBS	0025	2499	36486	2449			15369																	
		STO	0030	2499	3650	2449	0034610	0104	15370																	
		OBS	0030	2499	36495	2449			15370																	
		STO	0050	2500	3653	2452	0034455	0173	15374																	
		OBS	0050	2500	36532	2452			15374																	
		OBS	0064	2504	36560	2453			15377																	
		STO	0075	2279	3667	2528	0027304	0251	15326																	
		OBS	0075	2279	36670	2528			15326																	
		OBS	0090	2141	36684	2568			15293																	
		STO	0100	2070	3668	2587	0021736	0312	15276																	
		OBS	0100	2070	36682	2587			15276																	
		STO	0125	1952	3664	2616	0019145	0363	15248																	
		OBS	0125	1952	36638	2616			15248																	
		STO	0150	1899	3665	2630	0017657	0409	15237																	
		OBS	0150	1899	36647	2630			15237																	
		STO	0200	1839	3663	2644	0016717	0496	15228																	
		OBS	0200	1839	36627	2644			15228																	
		STO	0250	1822	3662	2647	0016533	0579	15232																	
		STO	0300	1805	3661	2651	0016370	0661	15235																	
		OBS	0300	1805	36610	2651			15235																	
		STO	0400	1771	3654	2654	0016391	0825	15241																	
		OBS	0400	1771	36542	2654			15241																	
		STO	0500	1719	3644	2659	0016231	0988	15241																	
		OBS	0500	1719	36440	2659			15241																	
		OBS	0560	1707	36432	2651			15247																	
		STO	0600	1620	3623	2666	0015776	1148	15225																	
		OBS	0600	1620	36230	2666			15225																	
		STO	0700	1429	3590	2684	0014245	1298	15177																	
		OBS	0700	1429	35900	2684			15177																	
		STO	0800	1211	3560	2735	0012203	1430	15117																	
		OBS	0800	1211	35603	2705			15117																	
		STO	0900	1007	3534	2722	0010555	1544	15059																	
		OBS	0900	1007	35335	2722			15059																	
		STO	1000	0790	3515	2743	0008415	1639	14992																	
		OBS	1000	0790	35149	2743			14992																	
		STO	1100	0650	3509	2758	0006821	1715	14953																	
		OBS	1100	0650	35092	2758			14953																	
		STO	1200	0573	3510	2769	0005773	1778	14940																	
		OBS	1200	0573	35100	2769			14940																	
		STO	1300	0519	3509	2775	0005181	1833	14934																	
		OBS	1300	0519	35093	2775			14934																	
		STO	1400	0489	3509	2778	0004675	1863	14939																	
		OBS	1400	0489	35093	2778			14939																	
		STO	1500	0465	3509	2781	0004649	1931	14946																	
		OBS	1500	0465	35093	2781			14946																	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
318007	EV					3314 N	07213 W	116 32	10		26	018			1966	026	5212	33		06	0		2
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB										
						DT	SD	SO	07	S07	146	250	228	8	31								
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	Si O <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	S C				
		STD	0000	2509	3647	2444		0034979	0000	15367													
	018	OBS	0000	2509	36467	2444				15367													
		STD	0010	2486	3648	2452		0034265	0035	15363													
		OBS	0010	2486	36479	2452				15363													
		STD	0020	2484	3648	2453		0034219	0069	15364													
	002	OBS	0020	2484	36483	2453				15364													
		OBS	0025	2484	36483	2453				15365													
		STD	0030	2484	3648	2453		0034260	0103	15366													
		OBS	0030	2484	36483	2453				15366													
		STD	0050	2484	3649	2453		0034306	0172	15369													
		OBS	0050	2484	36488	2453				15369													
		OBS	0065	2486	36497	2454				15372													
		STD	0075	2326	3662	2511		0026943	0251	15337													
		OBS	0075	2326	36623	2511				15337													
		STD	0100	2088	3670	2584		0022073	0315	15281													
		OBS	0100	2088	36700	2584				15281													
		STD	0125	1981	3670	2613		0019424	0366	15257													
		OBS	0125	1981	36700	2613				15257													
		STD	0150	1923	3669	2627		0018124	0413	15245													
		OBS	0150	1923	36692	2627				15245													
		STD	0200	1859	3664	2639		0017122	0501	15234													
		OBS	0200	1859	36638	2639				15234													
		STD	0250	1832	3662	2645		0016774	0586	15234													
		STD	0300	1807	3659	2649		0016570	0670	15235													
		OBS	0300	1807	36589	2649				15235													
		STD	0400	1760	3651	2654		0016389	0834	15237													
		OBS	0400	1760	36506	2654				15237													
		STD	0500	1711	3642	2659		0016187	0997	15238													
		OBS	0500	1711	36420	2659				15238													
		STD	0600	1622	3626	2668		0015605	1156	15226													
		OBS	0600	1622	36260	2668				15226													
		STD	0700	1449	3589	2679		0014752	1308	15183													
		OBS	0700	1449	35889	2679				15183													
		STD	0800	1232	3563	2703		0012435	1444	15125													
		OBS	0800	1232	35628	2703				15125													
		STD	0900	1010	3535	2722		0010536	1559	15060													
		OBS	0900	1010	35345	2722				15060													
		STD	1000	0806	3514	2740		0008717	1655	14996													
		OBS	1000	0806	35143	2740				14998													
		STD	1100	0651	3509	2758		0006836	1733	14954													
		OBS	1100	0651	35092	2758				14954													
	021	OBS	1178	0573	35043	2764				14935													
		STD	1200	0563	3509	2769		0005710	1795	14935													
		OBS	1200	0563	35089	2769				14935													
		STD	1300	0513	3509	2775		0005126	1850	14932													
		OBS	1300	0513	35089	2775				14932													
		STD	1400	0479	3508	2779		0004803	1899	14935													
		OBS	1400	0479	35084	2779				14935													
		STD	1500	0451	3508	2782		0004551	1946	14940													
		OBS	1500	0451	35080	2782				14940													
	021	OBS	T1675	0420	35001	2779				14955													
		STD	1750	0416	3500	2779		0004893	2064	14966													
		STD	2000	0399	3499	2780		0004951	2187	15001													
	021	OBS	T2174	0384	3488P	2773P																	
		STD	2500	0347	3498	2785		0004672	2428	15065													
	021	OBS	T2674	0330	34969	2785				15087													
		STD	3000	0301	3496	2787		0004464	2656	15131													
	021	OBS	T3224	0287	34944	2787				15164													
	021	OBS	3324	0282	34937	2787				15179													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CERY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE	
31	8007	EV	3254 N	07136 W		116	21	10	26	075	1966		027	5303	15	00	2	2		x2	013	0038
						WATER		WIND		AIR TEMP. °C		BARO-METER (mbs)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS				
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
DT		SD	13	S05	125	256	233	7	27													
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO <sub>2</sub> -N $\mu g - ml/l$	NO <sub>3</sub> -N $\mu g - ml/l$	SiO <sub>4</sub> -Si $\mu g - ml/l$	pH	S C C					
		STD	0000	2459	3633	2449	0034495	0000	15354													
075		OBS	0000	2459	36333	2449			15354													
		STD	0010	2459	3632	2448	0034629	0035	15355													
		OBS	0010	2459	36320	2448			15355													
002		STD	0020	2447	3632	2452	0034318	0069	15354													
		OBS	0020	2447	36321	2452			15354													
		OBS	0025	2441	36321	2454			15353													
		STD	0030	2440	3633	2455	0034114	0103	15354													
		OBS	0030	2440	36327	2455			15354													
		STD	0050	2437	3633	2456	0034059	0171	15357													
		OBS	0050	2437	36334	2456			15357													
		OBS	0059	2429	36334	2458			15356													
		STD	0075	2146	3667	2566	0023717	0244	15292													
		OBS	0075	2146	36670	2566			15292													
		STD	0100	2012	3667	2602	0020334	0299	15261													
		OBS	0100	2012	36670	2602			15261													
		STD	0125	1942	3666	2620	0018751	0348	15245													
		OBS	0125	1942	36658	2620			15245													
		STD	0150	1899	3665	2630	0017842	0393	15237													
		OBS	0150	1899	36649	2630			15237													
		STD	0200	1838	3662	2643	0016743	0480	15228													
		OBS	0200	1838	36620	2643			15228													
		STD	0250	1823	3662	2647	0016557	0563	15232													
		STD	0300	1806	3660	2650	0016406	0646	15235													
		OBS	0300	1806	36600	2650			15235													
		STD	0400	1769	3653	2654	0016415	0810	15240													
		OBS	0400	1769	36532	2654			15240													
		STD	0500	1717	3643	2659	0016227	0973	15240													
		OBS	0500	1717	36434	2659			15240													
		STD	0600	1579	3616	2670	0015354	1131	15211													
		OBS	0600	1579	36160	2670			15211													
		STD	0700	1319	3574	2694	0013109	1273	15139													
		OBS	0700	1319	35740	2694			15139													
		OBS	0750	1160	35490	2706			15090													
		STD	0800	1092	3540	2712	0011417	1396	15073													
		OBS	0800	1092	35399	2712			15073													
		STD	0900	0980	3526	2721	0010620	1506	15048													
		OBS	0900	0980	35260	2721			15048													
		OBS	0970	0935	35259	2728			15043													
		STD	1000	0860	3521	2737	0009096	1605	15019													
		OBS	1000	0860	35213	2737			15019													
		STD	1100	0665	3514	2759	0006724	1684	14960													
		OBS	1100	0665	35136	2759			14960													
		STD	1200	0568	3510	2770	0005679	1746	14938													
		OBS	1200	0568	35103	2770			14938													
		STD	1300	0520	3509	2774	0005209	1800	14935													
		OBS	1300	0520	35091	2774			14935													
		STD	1400	0481	3509	2779	0004801	1850	14935													
		OBS	1400	0481	35088	2779			14935													
		STD	1500	0460	3508	2780	0004697	1898	14943													
		OBS	1500	0460	35077	2780			14943													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	NODC STATION NUMBER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER								
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT									
						116	21	10	26	105														028	5333	15	06	2	2	X1	0
		WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS																				
		COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																							
		OT	SO	14	SO5		261	244	7	25																					
MESSENGER TIME HR. 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO <sub>2</sub> -N $\mu g - ml/l$	NO <sub>3</sub> -N $\mu g - ml/l$	SiO <sub>4</sub> -Si $\mu g - ml/l$	pH	S C													
		STD	0000	2479	3638	2447	0034741	0000	15359																						
	105	OBS	0000	2479	36379	2447			15359																						
		STD	0010	2479	3639	2448	0034681	0035	15361																						
		OBS	0010	2479	36393	2448			15361																						
		STD	0020	2479	3640	2448	0034693	0069	15362																						
	002	OBS	0020	2479	36397	2448			15362																						
		OBS	0025	2479	36405	2449			15363																						
		STD	0030	2479	3641	2449	0034619	0104	15364																						
		OBS	0030	2479	36413	2449			15364																						
		STD	0050	2476	3641	2450	0034614	0173	15367																						
		OBS	0050	2476	36413	2450			15367																						
		OBS	0060	2476	36413	2450			15368																						
		STD	0075	2219	3663	2542	0025950	0449	15310																						
		OBS	0075	2219	36631	2542			15310																						
		STD	0100	2049	3669	2594	0021136	0308	15271																						
		OBS	0100	2049	36690	2594			15271																						
		STD	0125	1930	3667	2624	0018366	0357	15242																						
		OBS	0125	1930	36670	2624			15242																						
		STD	0150	1888	3665	2633	0017587	0402	15234																						
		OBS	0150	1888	36647	2633			15234																						
		STD	0200	1844	3663	2642	0016845	0488	15230																						
		OBS	0200	1844	36626	2642			15230																						
		STD	0250	1826	3662	2646	0016629	0572	15233																						
		STD	0300	1808	3661	2650	0016464	0655	15236																						
		OBS	0300	1808	36607	2650			15236																						
		STD	0400	1770	3653	2654	0016425	0619	15240																						
		OBS	0400	1770	36534	2654			15240																						
		STD	0500	1720	3644	2659	0016262	0983	15241																						
		OBS	0500	1720	36439	2659			15241																						
		STD	0600	1613	3622	2668	0015660	1142	15222																						
		OBS	0600	1613	36224	2668			15222																						
		STD	0700	1405	3585	2685	0014076	1291	15169																						
		OBS	0700	1405	35853	2685			15169																						
		STD	0800	1190	3555	2705	0012178	1422	15110																						
		OBS	0800	1190	35550	2705			15110																						
		STD	0900	0940	3528	2729	0009754	1532	15034																						
		OBS	0900	0940	35283	2729			15034																						
		STD	1000	0762	3514	2746	0008020	1621	14981																						
		OBS	1000	0762	35142	2746			14981																						
		STD	1100	0635	3509	2760	0006621	1694	14947																						
		OBS	1100	0635	35089	2760			14947																						
		STD	1200	0542	3509	2772	0005413	1754	14927																						
		OBS	1200	0542	35089	2772			14927																						
		STD	1300	0511	3510	2776	0005010	1806	14931																						
		OBS	1300	0511	35101	2776			14931																						
		STD	1400	0479	3508	2778	0004832	1855	14935																						
		OBS	1400	0479	35080	2778			14935																						
		STD	1500	0452	3507	2781	0004623	1903	14940																						
		OBS	1500	0452	35072	2781			14940																						

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	ORBIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
31	8007	EV	3215 N	07053 W		116	20	10	26	146	1966		029	5349	15	20	2	2		X1	0	3	0040			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						DT	SD	23	506	132	267	256	7	25												
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ O DTN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C									
		STD	0000	2436	3633	2456	0033857	0000	15348																	
146		OBS	0000	2436	36330	2456			15348																	
		STD	0010	2432	3632	2456	0033855	0034	15349																	
		OBS	0010	2432	36320	2456			15349																	
		STD	0020	2417	3629	2459	0033698	0068	15346																	
002		OBS	0020	2417	36288	2459			15346																	
		OBS	0025	2417	36288	2459			15347																	
		STD	0030	2416	3629	2459	0033710	0101	15348																	
		OBS	0030	2416	36288	2459			15348																	
		STD	0050	2416	3629	2459	0033797	0169	15351																	
		OBS	0050	2416	36287	2459			15351																	
		OBS	0065	2414	36288	2459			15353																	
		STD	0075	2249	3662	2533	0026844	0245	15318																	
		OBS	0075	2249	36620	2533			15318																	
		STD	0100	2015	3669	2603	0020287	0304	15262																	
		OBS	0100	2015	36687	2603			15262																	
		STD	0125	1916	3666	2626	0018099	0352	15238																	
		OBS	0125	1916	36659	2626			15238																	
		STD	0150	1877	3663	2635	0017419	0396	15231																	
		OBS	0150	1877	36633	2635			15231																	
		STD	0200	1839	3666	2646	0016485	0481	15229																	
		OBS	0200	1839	36659	2646			15229																	
		STD	0250	1823	3663	2648	0016484	0563	15232																	
		STD	0300	1808	3660	2650	0016493	0646	15236																	
		OBS	0300	1808	36603	2650			15236																	
		STD	0400	1783	3657	2653	0016504	0811	15244																	
		OBS	0400	1783	36566	2653			15244																	
		STD	0500	1729	3646	2658	0016358	0975	15244																	
		OBS	0500	1729	36455	2658			15244																	
		STD	0600	1606	3622	2669	0015537	1134	15220																	
		OBS	0600	1606	36219	2669			15220																	
		STD	0700	1401	3588	2688	0013803	1281	15168																	
		OBS	0700	1401	35879	2688			15168																	
		STD	0800	1173	3552	2706	0012060	1410	15103																	
		OBS	0800	1173	35521	2706			15103																	
		STD	0900	0925	3526	2730	0009663	1519	15028																	
		OBS	0900	0925	35260	2730			15028																	
		STD	1000	0748	3512	2747	0007960	1607	14976																	
		OBS	1000	0748	35120	2747			14976																	
		STD	1100	0638	3511	2761	0006533	1680	14949																	
		OBS	1100	0638	35107	2761			14949																	
		STD	1200	0548	3510	2772	0005424	1739	14929																	
		OBS	1200	0548	35099	2772			14929																	
		STD	1300	0499	3509	2777	0004910	1791	14926																	
		OBS	1300	0499	35092	2777			14926																	
		STD	1400	0477	3509	2779	0004760	1839	14934																	
		OBS	1400	0477	35086	2779			14934																	
		STD	1500	0453	3508	2781	0004578	1886	14941																	
		OBS	1500	0453	35080	2781			14941																	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCHES	MARS SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT				
31	8007	EV	3157 N	07022 W		116	10	10	26	178	1966		030	5400	15	23	2	4		X1	0	3	0041			
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						DT	SO	24	SI	129	272	261	7	24												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S									
		STD	0000	2476	3636	2446	0034820	0000	15358																	
178		OBS	0000	2476	36356	2446			15358																	
		STD	0010	2474	3635	2446	0034868	0035	15359																	
		OBS	0010	2474	36347	2446			15359																	
		STD	0020	2480	3640	2448	0034701	0070	15363																	
002		OBS	0020	2480	36400	2448			15363																	
		OBS	0025	2490	36460	2450			15366																	
		STD	0030	2489	3646	2450	0034571	0104	15367																	
		OBS	0030	2489	36460	2450			15367																	
		STD	0050	2478	3643	2451	0034535	0173	15367																	
		OBS	0050	2478	36432	2451			15367																	
		STD	0075	2198	3665	2550	0025247	0248	15305																	
		OBS	0075	2198	36650	2550			15305																	
		STD	0100	2010	3669	2604	0020160	0305	15260																	
		OBS	0100	2010	36687	2604			15260																	
		STD	0125	1939	3668	2622	0018553	0353	15245																	
		OBS	0125	1939	36675	2622			15245																	
		STD	0150	1887	3665	2633	0017540	0398	15234																	
		OBS	0150	1887	36650	2633			15234																	
		STD	0200	1841	3662	2643	0016816	0484	15229																	
		OBS	0200	1841	36620	2643			15229																	
		STD	0250	1823	3661	2646	0016629	0568	15232																	
		STD	0300	1806	3660	2650	0016488	0651	15235																	
		OBS	0300	1806	36597	2650			15235																	
		STD	0400	1775	3654	2653	0016500	0416	15242																	
		OBS	0400	1775	36540	2653			15242																	
		STD	0500	1721	3643	2658	0016321	0980	15241																	
		OBS	0500	1721	36434	2658			15241																	
		STD	0600	1605	3617	2666	0015839	1141	15219																	
		OBS	0600	1605	36174	2666			15219																	
		STD	0700	1371	3580	2688	0013739	1288	15157																	
		OBS	0700	1371	35801	2688			15157																	
		STD	0800	1118	3546	2712	0011465	1414	15083																	
		OBS	0800	1118	35459	2712			15083																	
		STD	0900	0907	3523	2731	0009552	1520	15021																	
		OBS	0900	0907	35233	2731			15021																	
		STD	1000	0739	3515	2750	0007015	1605	14972																	
		OBS	1000	0739	35148	2750			14972																	
		STD	1100	0603	3508	2763	0006219	1675	14935																	
		OBS	1100	0603	35080	2763			14935																	
		STD	1200	0537	3508	2772	0005409	1733	14925																	
		OBS	1200	0537	35080	2772			14925																	
		STD	1300	0500	3510	2777	0004901	1784	14927																	
		OBS	1300	0500	35095	2777			14927																	
		STD	1400	0480	3509	2779	0004772	1833	14935																	
		OBS	1400	0480	35090	2779			14935																	
		STD	1500	0441	3507	2782	0004523	1879	14935																	
		OBS	1500	0441	35065	2782			14935																	



TABLE IV.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
318007	EV	3156 N	06909 W		115	19	10	27	018	1966		031	5121	15	20	1	2		X1	0	3		0042
					WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE											
					DT	SD	26	S10	142	272	217	7	25										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-S10 <sup>3</sup>	Σ Δ σ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	°C						
		STD	0000	2540	3648	2436	0035794	0000	15374														
018		OBS	0000	2540	36480	2436			15374														
		STD	0010	2540	3648	2436	0035835	0036	15376														
		OBS	0010	2540	36480	2436			15376														
002		STD	0020	2540	3650	2437	0035732	0072	15378														
		OBS	0020	2540	36500	2437			15378														
		OBS	0025	2542	36520	2438			15379														
		STD	0030	2550	3658	2440	0035493	0107	15383														
		OBS	0030	2550	36580	2440			15383														
		STD	0050	2553	3663	2443	0035305	0178	15387														
		OBS	0050	2553	36630	2443			15387														
		OBS	0060	2360	36769	2512			15345														
		STD	0075	2210	3674	2553	0024921	0253	15309														
		OBS	0075	2210	36740	2553			15309														
		STD	0100	2049	3666	2591	0021353	0311	15270														
		OBS	0100	2049	36660	2591			15270														
		STD	0125	1981	3665	2609	0019757	0363	15256														
		OBS	0125	1981	36654	2609			15256														
		STD	0150	1919	3666	2626	0018256	0410	15243														
		OBS	0150	1919	36660	2626			15243														
		STD	0200	1849	3659	2638	0017219	0499	15231														
		OBS	0200	1849	36591	2638			15231														
		STD	0250	1825	3658	2644	0016894	0584	15232														
		STD	0300	1802	3656	2648	0016659	0668	15233														
		OBS	0300	1802	36560	2648			15233														
		STD	0400	1759	3649	2653	0016510	0834	15236														
		OBS	0400	1759	36486	2653			15236														
		STD	0500	1701	3638	2659	0016249	0998	15234														
		OBS	0500	1701	36379	2659			15234														
		STD	0600	1581	3615	2669	0015500	1156	15212														
		OBS	0600	1581	36146	2669			15212														
		STD	0700	1360	3578	2689	0013633	1302	15153														
		OBS	0700	1360	35784	2689			15153														
		STD	0800	1139	3549	2710	0011621	1428	15091														
		OBS	0800	1139	35492	2710			15091														
		STD	0900	0898	3522	2731	0009509	1534	15017														
		OBS	0900	0898	35218	2731			15017														
		STD	1000	0722	3512	2750	0007593	1619	14965														
		OBS	1000	0722	35115	2750			14965														
		STD	1100	0612	3509	2763	0006313	1689	14938														
		OBS	1100	0612	35085	2763			14938														
		STD	1200	0550	3510	2771	0005467	1748	14930														
		OBS	1200	0550	35097	2771			14930														
		STD	1300	0516	3509	2775	0005146	1801	14933														
		OBS	1300	0516	35092	2775			14933														
		STD	1400	0484	3509	2779	0004828	1851	14937														
		OBS	1400	0484	35090	2779			14937														
		STD	1500	0454	3507	2780	0004694	1898	14941														
		OBS	1500	0454	35066	2780			14941														

TABLE IV.—Continued

REFERENCE	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY HR 1/10	MARSOEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
					10°	1°	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER	DIR.			HGT PER	SEA	TYPE		AMT		
					10°	1°	MO	DAY	HR.1/10													
318007	EV	3155 N	06803 W	115 18 10 27 075	1966					032		5212	15	24	2	3		X1	0	3		0043
		WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	CIR.	SPEED OR FORCE			DRY BULB	WET BULB														
DT		SD	25	S10	125	261	239	7	24													
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND WALT-2107		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	1 CC				
		STD	0000	2580	3646	2422	0037120		0000	15383												
	075	OBS	0000	2580	36460	2422				15383												
		STD	0010	2580	3646	2422	0037161		0037	15385												
		OBS	0010	2580	36460	2422				15385												
		STD	0020	2580	3646	2422	0037203		0074	15386												
	002	OBS	0020	2580	36460	2422				15386												
		OBS	0025	2580	36460	2422				15387												
		STD	0030	2580	3646	2422	0037244		0112	15388												
		OBS	0030	2580	36460	2422				15388												
		STD	0050	2582	3654	2427	0036848		0186	15393												
		OBS	0050	2582	36535	2427				15393												
		STD	0075	2330	3671	2516	0028414		0267	15339												
		OBS	0075	2330	36712	2516				15339												
		STD	0100	2128	3672	2574	0022976		0331	15292												
		OBS	0100	2128	36720	2574				15292												
		STD	0125	2011	3671	2605	0020149		0385	15265												
		OBS	0125	2011	36705	2605				15265												
		STD	0150	1930	3668	2625	0018370		0434	15246												
		OBS	0150	1930	36682	2625				15246												
		STD	0200	1851	3663	2641	0016978		0522	15232												
		OBS	0200	1851	36631	2641				15232												
		STD	0250	1828	3662	2646	0016677		0606	15233												
		STD	0300	1809	3660	2649	0016538		0689	15236												
		OBS	0300	1809	36600	2649				15236												
		STD	0400	1780	3655	2652	0016569		0855	15243												
		OBS	0400	1780	36547	2652				15243												
		STD	0500	1719	3643	2658	0016339		1019	15240												
		OBS	0500	1719	36425	2658				15240												
		STD	0600	1603	3620	2668	0015613		1179	15219												
		OBS	0600	1603	36199	2668				15219												
		STD	0700	1399	3588	2689	0013746		1326	15167												
		OBS	0700	1399	35881	2689				15167												
		STD	0800	1179	3554	2707	0012052		1455	15106												
		OBS	0800	1179	35538	2707				15106												
		STD	0900	0934	3526	2729	0009818		1564	15031												
		OBS	0900	0934	35260	2729				15031												
		STD	1000	0741	3513	2749	0007756		1652	14973												
		OBS	1000	0741	35133	2749				14973												
		STD	1100	0606	3510	2765	0006109		1721	14936												
		OBS	1100	0606	35101	2765				14936												
		STD	1200	0537	3509	2772	0005365		1779	14925												
		OBS	1200	0537	35086	2772				14925												
		STD	1300	0495	3508	2777	0004942		1830	14924												
		OBS	1300	0495	35080	2777				14924												
		STD	1400	0469	3508	2779	0004709		1878	14930												
		OBS	1400	0469	35078	2779				14930												
		STD	1500	0448	3507	2781	0004605		1925	14938												
		OBS	1500	0448	35067	2781				14938												

TABLE IV.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT	MARSOEN		STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX.	WAVE				WEA-	CLOUD		NODC					
CTRY	IO.	CODE	* 1/10	* 1/10	IN/OUT	SQUARE	10'	1'	MO	DAY		HR./10	CRUISE	STATION	BOTTOM	DEPTH	OBS.	DIR	HGT	PER	SEA	THER		TYPE	AMT	STATION		
CODE	NO.											NO.	NUMBER		SAMPLE						CODE			NUMBER				
318007	EV		3155 N	06656 W		115	16	10	27	131	1966		033	4938	15	24	2	2			X1	0	3	0044				
					WATER		WIND		BARO-		AIR TEMP. °C			NO.		SPECIAL												
					COLOR	TRANS.	DIR.	SPEED	METER		DRY		WET	VIS.	OBS.	OBSERVATIONS												
					CODE	(m)		OR FORCE	(mb)		BULB		BULB	CODE	DEPTH													
					DT	SD	22	S10	156		267		244	7	25													
MESSAGE	TIME	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME		Σ Δ O		SOUND		O <sub>2</sub> ml/l		PO <sub>4</sub> -P		TOTAL-P		NO <sub>2</sub> -N		NO <sub>3</sub> -N		Si O <sub>4</sub> -Si		pH	S
HR 1/10	OF	NO.	TYPE							ANOMALY- $\sigma_t$		BY N. M.		VELOCITY			μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		C				
			STD	0000	2500	3644	2445		0034933		0000		15364															
131			OBS	0000	2500	36437	2445						15364															
			STD	0010	2499	3644	2445		0034959		0035		15366															
			OBS	0010	2499	36435	2445						15366															
			STD	0020	2499	3644	2445		0034972		0070		15367															
002			OBS	0020	2499	36439	2445						15367															
			OBS	0025	2502	36470	2447						15369															
			STD	0030	2502	3647	2447		0034863		0105		15370															
			OBS	0030	2502	36472	2447						15370															
			OBS	0040	2505	36488	2447						15373															
			STD	0050	2455	3650	2463		0033417		0173		15363															
			OBS	0050	2455	36495	2463						15363															
			STD	0075	2113	3668	2576		0022768		0243		15284															
			OBS	0075	2113	36681	2576						15284															
			STD	0100	1960	3666	2615		0019065		0296		15246															
			OBS	0100	1960	36664	2615						15246															
			STD	0125	1905	3665	2629		0017885		0342		15235															
			OBS	0125	1905	36651	2629						15235															
			STD	0150	1859	3662	2638		0017061		0386		15226															
			OBS	0150	1859	36622	2638						15226															
			STD	0200	1820	3660	2646		0016462		0469		15223															
			OBS	0200	1820	36599	2646						15223															
			STD	0250	1812	3659	2648		0016509		0552		15228															
			STD	0300	1797	3657	2650		0016453		0634		15232															
			OBS	0300	1797	36572	2650						15232															
			STD	0400	1744	3648	2656		0016184		0797		15232															
			OBS	0400	1744	36482	2656						15232															
			STD	0500	1700	3640	2661		0016074		0959		15234															
			OBS	0500	1700	36400	2661						15234															
			STD	0600	1540	3609	2674		0014968		1114		15198															
			OBS	0600	1540	36093	2674						15198															
			STD	0700	1365	3582	2691		0013462		1256		15155															
			OBS	0700	1365	35822	2691						15155															
			STD	0800	1151	3551	2710		0011689		1382		15096															
			OBS	0800	1151	35514	2710						15096															
			STD	0900	0923	3523	2728		0009826		1489		15027															
			OBS	0900	0923	35233	2728						15027															
			STD	1000	0741	3511	2747		0007895		1578		14973															
			OBS	1000	0741	35114	2747						14973															
			STD	1100	0621	3510	2763		0006334		1649		14942															
			OBS	1100	0621	35100	2763						14942															
			STD	1200	0558	3510	2771		0005558		1709		14933															
			OBS	1200	0558	35100	2771						14933															
			STD	1300	0521	3511	2776		0005092		1762		14935															
			OBS	1300	0521	35109	2776						14935															
			STD	1400	0497	3511	2779		0004841		1811		14942															
			OBS	1400	0497	35113	2779						14942															
			STD	1500	0479	3512	2781		0004670		1859		14952															
			OBS	1500	0479	35117	2781						14952															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSQEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318007	EV		3154 N	06543 W	115	15	10	27	187	1966		034		4755	10	24	2	4		X1	0	3	0045
		WATER COLOR CODE	WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
			TRANS. (m)	DIR.		SPEED OR FORCE	DRY BULB					WET BULB											
		DT	SD	21	S12	146	250	239	7	21													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	DOC						
		STD	0000	2519	3626	2426	0036732	0000	15367														
	187	OBS	0000	2519	36264	2426			15367														
		STD	0010	2515	3625	2426	0036743	0037	15367														
		OBS	0010	2515	36252	2426			15367														
	001	STD	0020	2504	3626	2430	0036376	0073	15367														
		OBS	0020	2504	36264	2430			15367														
		OBS	0025	2503	36265	2431			15367														
		STD	0030	2502	3627	2431	0036345	0110	15368														
		OBS	0030	2502	36266	2431			15368														
		STD	0050	2502	3631	2435	0036096	0182	15372														
		OBS	0050	2502	36312	2435			15372														
		STD	0075	2443	3661	2475	0032347	0268	15365														
		OBS	0075	2443	36610	2475			15365														
		STD	0100	2070	3666	2585	0021916	0335	15276														
		OBS	0100	2070	36657	2585			15276														
		STD	0125	1912	3659	2622	0018506	0386	15236														
		OBS	0125	1912	36589	2622			15236														
		OBS	0139	1847	36577	2638			15220														
		STD	0150	1841	3658	2639	0016951	0430	15220														
		OBS	0150	1841	36577	2639			15220														
		STD	0200	1829	3657	2642	0016874	0515	15225														
		OBS	0200	1829	36572	2642			15225														
		STD	0250	1797	3653	2647	0016584	0599	15223														
		STD	0300	1770	3650	2651	0016338	0681	15223														
		OBS	0300	1770	36499	2651			15223														
		STD	0400	1730	3643	2656	0016215	0844	15227														
		OBS	0400	1730	36432	2656			15227														
		STD	0500	1679	3632	2660	0016156	1005	15227														
		OBS	0500	1679	36321	2660			15227														
		STD	0600	1520	3604	2675	0014881	1161	15191														
		OBS	0600	1520	36044	2675			15191														
		STD	0700	1280	3565	2695	0013010	1300	15125														
		OBS	0700	1280	35645	2695			15125														
		STD	0800	1160	3544	2703	0012370	1427	15098														
		OBS	0800	1160	35444	2703			15098														
		STD	0900	1004	3531	2721	0010683	1542	15057														
		OBS	0900	1004	35310	2721			15057														
		STD	1000	0842	3517	2736	0009110	1641	15012														
		OBS	1000	0842	35170	2736			15012														
		OBS	1050	0720	35070	2747			14972														

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSQEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318007	EV		3154 N	06543 W	115	15	10	27	198	1966		034		4755	31	24	2	4		X1	7	7	0046
		WATER COLOR CODE	WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
			TRANS. (m)	DIR.		SPEED OR FORCE	DRY BULB					WET BULB											
		DT	SD	21	S12	146	250	239	7	06													
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\times 10^3$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	DOC						
		STD	0000	2520	3627	2426	0036733	0000	15367														
	198	OBS	0000	2520	36268	2426			15367														
		STD	0010	2512	3628	2429	0036483	0037	15367														
	198	OBS	0010	2512	36276	2429			15367														
	198	OBS	T1534	0437	35002	2777			14939														
		STD	1750	0411	3499	2779	0004897		14964														
		STD	2000	0383	3498	2781	0004797		14995														
	198	OBS	T2057	0377	34979	2781			15002														
		STD	2500	0338	3497	2785	0004612		15061														
	198	OBS	2579	0331	34965	2785			15071														
		STD	3000	0289	3494	2787	0004424		15126														
	198	OBS	T3100	0279	34935	2787			15139														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	UNIT INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CITY CODE	IO. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8007	EV	32250N	064308W		115	24	10	28	031	1966	035		1884	14	17	2	2		X1	0	3	0047
						WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
DT	SD	20	S15	152	250	233	8	27															
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ OYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{ol/l}$	TOTAL-P $\mu\text{g} \cdot \text{ol/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{ol/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{ol/l}$	pH	S C C						
		STO	0000	2467	3634	2447	0034668	0000	15356														
	031	OBS	0000	2467	36341	2447			15356														
		STO	0010	2465	3634	2448	0034644	0035	15357														
		OBS	0010	2465	36342	2448			15357														
		STO	0020	2464	3637	2450	0034483	0069	15358														
	002	OBS	0020	2464	36366	2450			15358														
		OBS	0025	2464	36367	2450			15359														
		STO	0030	2460	3637	2451	0034408	0104	15359														
		OBS	0030	2460	36366	2451			15359														
		STO	0050	2405	3639	2470	0032743	0171	15349														
		OBS	0050	2405	36390	2470			15349														
		STO	0075	2260	3653	2523	0027800	0446	15320														
		OBS	0075	2260	36529	2523			15320														
		STO	0100	1959	3659	2610	0019597	0306	15245														
		OBS	0100	1959	36587	2610			15245														
		OBS	0118	1873	36589	2632			15224														
		STO	0125	1871	3659	2633	0017517	0352	15225														
		OBS	0125	1871	36587	2633			15225														
		STO	0150	1840	3657	2639	0016949	0395	15220														
		OBS	0150	1840	36574	2639			15220														
		STO	0200	1812	3656	2645	0016574	0479	15220														
		OBS	0200	1812	36557	2645			15220														
		STO	0250	1791	3653	2648	0016441	0562	15222														
		STO	0300	1769	3650	2651	0016314	0643	15223														
		OBS	0300	1769	36499	2651			15223														
		STO	0400	1726	3641	2655	0016302	0807	15226														
		OBS	0400	1726	36407	2655			15226														
		OBS	0460	1688	36357	2660			15224														
		STO	0500	1620	3622	2666	0015512	0966	15208														
		OBS	0500	1620	36223	2666			15208														
		STO	0600	1493	3601	2678	0014573	1116	15182														
		OBS	0600	1493	36005	2678			15182														
		STO	0700	1420	3588	2684	0014234	1260	15174														
		OBS	0700	1420	35875	2684			15174														
		STO	0800	1304	3569	2694	0013438	1398	15150														
		OBS	0800	1304	35689	2694			15150														
		OBS	0880	1198	35546	2703			15125														
		STO	0900	1097	3540	2711	0011753	1524	15092														
		OBS	0900	1097	35397	2711			15092														
		OBS	0950	1031	35342	2718			15076														
		STO	1000	0800	3514	2740	0008671	1626	14996														
		OBS	1000	0800	35136	2740			14996														
		STO	1100	0619	3505	2759	0006686	1703	14941														
		OBS	1100	0619	35048	2759			14941														
		STO	1200	0563	3508	2768	0005805	1766	14935														
		OBS	1200	0563	35076	2768			14935														
		STO	1300	0523	3506	2771	0005508	1822	14935														
		OBS	1300	0523	35056	2771			14935														
		STO	1400	0471	3503	2775	0005116	1875	14930														
		OBS	1400	0471	35026	2775			14930														

TABLE IV.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DATE	MARS		STATION TIME				YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD		NODC
CTRY	ID.	CODE	"	"		SQUARE	MO	DAY	HR.	1/10	CRUISE		STATION	TO			OF	DIR.	HGT	PER		SEA	THER	
31	8007	EV	3315 N	06335 W		115	33	10	31	047	1966		036	4481	16	03	5	3		X2	5	9	0048	
		WATER		WIND		BARO-		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER (mb)		DRY BULB	WET BULB			OBSERVATIONS												
					02	515	186	211	167	7	11													
MESSAGE	TIME	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O <sub>2</sub> ml/l	PD <sub>4</sub> -P	TOTAL-P	NO <sub>2</sub> -N	NO <sub>3</sub> -N	SiD <sub>4</sub> -Si	pH	S						
HR	1/10	NO.	TYPE					ANOMALY-3107	OWN. M. X 10 <sup>3</sup>	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		C						
			STD	0010	2442																			
	047		OBS	0010	2442	3501P	2354P																	
			STD	0020	2439																			
	047		OBS	0025	2438	3502P	2356P																	
			STD	0030	2438																			
			STD	0050	2438																			
	047		OBS	0051	2438	3507P	2360P																	
			STD	0075	2246																			
			STD	0100	2085																			
			STD	0125	1961																			
			STD	0150	1877																			
	047		OBS	0151	1874	3653P	2627P																	
			STD	0200	1826																			
	047		OBS	T0202	1824	3656P	2642P																	
			STD	0250	1808																			
			STD	0300	1790																			
	047		OBS	0304	1788	3659P	2654P																	
			STD	0400	1754																			
	047		OBS	T0431	1732	3662P	2670P																	
			STD	0500	1623																			
			STD	0600	1460																			
			STD	0700	1294																			
	047		OBS	T0710	1277	3643P	2756P																	
			STD	0800	1047																			
			STD	0900	0836																			
			STD	1000	0672																			
			STD	1100	0555																			
	047		OBS	T1130	0529	3643P	2879P																	
			STD	1200	0504																			
			STD	1300	0472																			
	047		OBS	T1329	0464	3643P	2887P																	
			STD	1400	0446																			
			STD	1500	0424																			
	047		OBS	T1641	0403	3646P	2896P																	



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
31	8007	EV	3356 N	00234 W	115	32	10	31	122	1966	037		4207	15	25	5	3		X1	0	3	0049
		WATER COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mbs)	AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
DT	SD						DRY BULB	WET BULB														
20	510						207	194				144	7	24								
MESSENGER TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC					
		STD	0000	2378	3619	2463	0033212	0000	15332													
122		OBS	0000	2378	36191	2463			15332													
		STD	0010	2378	3619	2463	0033252	0033	15334													
		OBS	0010	2378	36191	2463			15334													
		STD	0020	2379	3619	2463	0033306	0067	15336													
002		OBS	0020	2379	36193	2463			15336													
		OBS	0025	2379	36193	2463			15337													
		STD	0030	2379	3619	2463	0033346	0100	15338													
		OBS	0030	2379	36193	2463			15338													
		STD	0050	2379	3620	2463	0033411	0167	15341													
		OBS	0050	2379	36195	2463			15341													
		STD	0075	2380	3623	2465	0033265	0250	15346													
		OBS	0075	2380	36233	2465			15346													
		STD	0100	2254	3665	2533	0026884	0325	15343													
		OBS	0100	2254	36647	2533			15323													
		STD	0125	2060	3670	2586	0021945	0386	15283													
		OBS	0125	2080	36702	2586			15283													
		STD	0150	1992	3669	2609	0019689	0438	15264													
		OBS	0150	1992	36687	2609			15264													
		STD	0200	1889	3662	2630	0017965	0533	15242													
		OBS	0200	1889	36620	2630			15242													
		STD	0250	1844	3660	2640	0017209	0621	15238													
		STD	0300	1811	3657	2647	0016789	0706	15236													
		OBS	0300	1811	36572	2647			15236													
		STD	0400	1780	3653	2651	0016714	0874	15243													
		OBS	0400	1780	36527	2651			15243													
		STD	0500	1721	3643	2658	0016372	1039	15241													
		OBS	0500	1721	36427	2658			15241													
		STD	0600	1617	3619	2664	0015967	1201	15223													
		OBS	0600	1617	36194	2664			15223													
		STD	0700	1368	3577	2686	0013930	1350	15156													
		OBS	0700	1368	35766	2686			15156													
		STD	0800	1144	3546	2707	0011949	1480	15092													
		OBS	0800	1144	35460	2707			15092													
		STD	0900	0909	3521	2729	0009769	1588	15021													
		OBS	0900	0909	35208	2729			15021													
		STD	1000	0679	3503	2749	0007539	1675	14948													
		OBS	1000	0679	35033	2749			14948													
		STD	1100	0578	3507	2765	0005971	1742	14924													
		OBS	1100	0578	35065	2765			14924													
		STD	1200	0523	3506	2771	0005382	1799	14919													
		OBS	1200	0523	35057	2771			14919													
		STD	1300	0487	3505	2775	0005037	1851	14921													
		OBS	1300	0487	35052	2775			14921													
		STD	1400	0458	3504	2777	0004873	1901	14925													
		OBS	1400	0458	35035	2777			14925													
		STD	1500	0436	3502	2779	0004755	1949	14933													
		OBS	1500	0436	35024	2779			14933													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8007	EV	34400N	061255W		115	41	10	31	193	1966		038	4207	15	34	4	2		X1	0	3	0050
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	03	S08	234	206	161	7	27									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ D DTN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S CODE					
		STO	0000	2333	3615	2473		0032285	0000	15321													
193		OBS	0000	2333	36145	2473				15321													
		STO	0010	2333	3615	2473		0032324	0032	15323													
		OBS	0010	2333	36145	2473				15323													
		STO	0020	2333	3615	2473		0032328	0065	15324													
002		OBS	0020	2333	36150	2473				15324													
		OBS	0025	2334	36150	2473				15325													
		STO	0030	2334	3615	2473		0032395	0097	15326													
		OBS	0030	2334	36150	2473				15326													
		STO	0050	2335	3616	2473		0032466	0162	15330													
		OBS	0050	2335	36155	2473				15330													
		OBS	0070	2329	36167	2475				15332													
		STO	0075	2259	3627	2503		0029668	0240	15316													
		OBS	0075	2259	36266	2503				15316													
		STO	0100	2087	3663	2578		0022589	0305	15280													
		OBS	0100	2087	36625	2578				15280													
		STO	0125	1979	3665	2609		0019757	0358	15255													
		OBS	0125	1979	36647	2609				15255													
		STO	0150	1915	3663	2624		0018410	0405	15242													
		OBS	0150	1915	36625	2624				15242													
		STO	0200	1850	3659	2638		0017280	0495	15231													
		OBS	0200	1850	36586	2638				15231													
		STO	0250	1826	3658	2643		0016918	0580	15232													
		STO	0300	1799	3656	2648		0016616	0664	15232													
		OBS	0300	1799	36556	2648				15232													
		STO	0400	1738	3644	2655		0016331	0829	15230													
		OBS	0400	1738	36442	2655				15230													
		STO	0500	1659	3630	2662		0015875	0990	15221													
		OBS	0500	1659	36296	2662				15221													
		STO	0600	1490	3598	2677		0014689	1143	15181													
		OBS	0600	1490	35980	26770																	
		STO	0700	1267	3564	2697		0012808	1280	15120													
		OBS	0700	1267	35637	2697				15120													
		STO	0800	1019	3527	2715		0011050	1399	15046													
		OBS	0800	1019	35267	2715				15046													
		OBS	0840	0917	35190	2726				15014													
		OBS	0889	0860	35123	2730				15000													
		STO	0900	0799	3507	2735		0008985	1500	14978													
		OBS	0900	0799	35067	2735				14978													
		STO	1000	0622	3505	2758		0006605	1578	14925													
		OBS	1000	0622	35046	2758				14925													
		STO	1100	0522	3502	2768		0005543	1638	14901													
		OBS	1100	0522	35017	2768				14901													
		STO	1200	0486	3501	2772		0005192	1692	14903													
		OBS	1200	0486	35014	2772				14903													
		STO	1300	0460	3502	2776		0004906	1742	14909													
		OBS	1300	0460	35020	2776				14909													
		STO	1400	0440	3501	2777		0004834	1791	14917													
		OBS	1400	0440	35007	2777				14917													
		STO	1500	0422	3501	2779		0004705	1839	14927													
		OBS	1500	0422	35005	2779				14927													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FATHOMS	MARSGEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		STATION NUMBER	NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			OBSERVATIONS					TYPE	AMT		
																DIR.	HGT	PER	SEA					
31	8007	EV	3515 N	06020 W		115	50	11	01	027	1966		039	4663	31	07	1	4		X2	0	3		0051
		COLOR CODE	WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
			TRANS. (m)	REFL.	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
			OT	SO	07	S10		281	206															183
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g \cdot dl/l$	TOTAL-P $\mu g \cdot dl/l$	NO <sub>2</sub> -N $\mu g \cdot dl/l$	NO <sub>3</sub> -N $\mu g \cdot dl/l$	SIO <sub>4</sub> -Si $\mu g \cdot dl/l$	pH	S CD							
		STD	0000	2389	3627	2465	0032982	0000	15336															
	027	OBS	0000	2389	36266	2465			15336															
		STD	0010	2390	3627	2465	0033050	0033	15338															
		OBS	0010	2390	36266	2465			15338															
		STD	0020	2390	3627	2465	0033090	0066	15340															
	002	OBS	0020	2390	36266	2465			15340															
		OBS	0025	2390	36266	2465			15340															
		STD	0030	2390	3627	2465	0033130	0099	15341															
		OBS	0030	2390	36266	2465			15341															
		STD	0050	2390	3627	2465	0033203	0166	15344															
		OBS	0050	2390	36267	2465			15344															
		STD	0075	2099	3661	2574	0022929	0236	15279															
		OBS	0075	2099	36608	2574			15279															
		STD	0100	1949	3663	2615	0019058	0288	15243															
		OBS	0100	1949	36627	2615			15243															
		STD	0125	1894	3662	2629	0017854	0334	15232															
		OBS	0125	1894	36618	2629			15232															
		STD	0150	1857	3659	2636	0017244	0378	15225															
		OBS	0150	1857	36590	2636			15225															
		STD	0200	1818	3658	2645	0016580	0463	15222															
		OBS	0200	1818	36576	2645			15222															
		STD	0250	1804	3657	2648	0016462	0545	15226															
		STD	0300	1787	3655	2651	0016395	0628	15229															
		OBS	0300	1787	36547	2651			15229															
		STD	0400	1744	3647	2655	0016278	0791	15232															
		OBS	0400	1744	36469	2655			15232															
		STD	0500	1700	3641	2661	0016038	0952	15234															
		OBS	0500	1700	36405	2661			15234															
		STD	0600	1539	3604	2670	0015343	1109	15197															
		OBS	0600	1539	36038	2670			15197															
		STD	0700	1321	3571	2692	0013389	1253	15139															
		OBS	0700	1321	35707	2692			15139															
		STD	0800	1054	3534	2714	0011149	1376	15059															
		OBS	0800	1054	35340	2714			15059															
		STD	0900	0812	3512	2737	0008828	1476	14983															
		OBS	0900	0812	35117	2737			14983															
		STD	1000	0660	3503	2752	0007271	1556	14940															
		OBS	1000	0660	35031	2752			14940															
		STD	1100	0562	3504	2766	0005899	1622	14918															
		OBS	1100	0562	35044	2766			14918															
		STD	1200	0500	3505	2773	0005132	1677	14909															
		OBS	1200	0500	35048	2773			14909															
		STD	1300	0479	3506	2776	0004906	1727	14917															
		OBS	1300	0479	35055	2776			14917															
		STD	1400	0457	3504	2778	0004808	1776	14925															
		OBS	1400	0457	35042	2778			14925															
	043	OBS	T1478	0436	36430	28900																		
		STD	1500	0432	3503	2779	0004686	1823	14931															
		OBS	1500	0432	35026	2779			14931															
		STD	1750	0404	3500	2780	0004727	1941	14961															
		STD	2000	0377	3498	2782	0004713	2059	14992															
	043	OBS	T2034	0374	34974	2781			14997															
		STD	2500	0331	3496	2785	0004560	2491	15058															
	043	OBS	T2621	0320	34960	2786			15074															
		STD	3000	0286	3494	2787	0004379	2514	15125															
	043	OBS	T3112	0276	34937	2788			15140															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					MO	DAY	HR.1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT			PER	SEA	TYPE	AMT				
																					10°	1°	
31	8007	EV	3542 N	06050 W	115	50	11	01	081	1966		040	4612	15	06	4	4		X1	0	3	0052	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE	TRANS (m)	DIR.	SPEED OR FORCE	Z95		DRY BULB	WET BULB										
						DT	SD	06	S07			211	194	7	25								
MESSNGR TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ O DYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C C				
081		STD	0000	2340	3614	2470	0032523		0000		15323												
		OBS	0000	2340	36139	2470					15323												
002		STD	0010	2340	3614	2470	0032563		0033		15324												
		OBS	0010	2340	36139	2470					15324												
		STD	0020	2340	3614	2470	0032602		0065		15326												
		OBS	0020	2340	36139	2470					15326												
		OBS	0025	2340	36139	2470					15327												
		STD	0030	2340	3614	2470	0032642		0098		15328												
		OBS	0030	2340	36139	2470					15328												
		STD	0050	2340	3614	2470	0032721		0163		15331												
		OBS	0050	2340	36139	2470					15331												
		OBS	0069	2320	36375	2494					15332												
		STD	0075	2220	3653	2534	0026727		0437		15309												
		OBS	0075	2220	36527	2534					15309												
		STD	0100	2060	3663	2586	0021867		0498		15273												
		OBS	0100	2060	36628	2586					15273												
		STD	0125	1952	3660	2612	0019441		0350		15247												
		OBS	0125	1952	36597	2612					15247												
		STD	0150	1875	3657	2630	0017833		0396		15230												
		OBS	0150	1875	36569	2630					15230												
		STD	0200	1820	3657	2644	0016701		0483		15222												
		OBS	0200	1820	36566	2644					15222												
		STD	0250	1802	3655	2647	0016559		0566		15225												
		STD	0300	1781	3652	2650	0016418		0648		15227												
		OBS	0300	1781	36524	2650					15227												
		STD	0400	1733	3643	2655	0016300		0812		15228												
		OBS	0400	1733	36430	2655					15228												
		STD	0500	1639	3624	2663	0015843		0973		15214												
		OBS	0500	1639	36237	2663					15214												
	STD	0600	1440	3588	2680	0014309		1123		15164													
	OBS	0600	1440	35884	2680					15164													
	STD	0700	1162	3546	2704	0012022		1255		15082													
	OBS	0700	1162	35464	2704					15082													
	STD	0800	0930	3521	2725	0009921		1365		15012													
	OBS	0800	0930	35209	2725					15012													
	STD	0900	0753	3510	2744	0008049		1455		14961													
	OBS	0900	0753	35096	2744					14961													
	STD	1000	0586	3503	2761	0006239		1526		14911													
	OBS	1000	0586	35026	2761					14911													
	STD	1100	0527	3503	2769	0005524		1585		14903													
	OBS	1100	0527	35029	2769					14903													
	STD	1200	0498	3505	2773	0005127		1638		14908													
	OBS	1200	0498	35045	2773					14908													
	STD	1300	0479	3505	2776	0004950		1688		14917													
	OBS	1300	0479	35049	2776					14917													
	STD	1400	0450	3504	2778	0004735		1737		14922													
	OBS	1400	0450	35039	2778					14922													
	STD	1500	0432	3503	2779	0004679		1784		14931													
	OBS	1500	0432	35027	2779					14931													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			OIL HGT PER SEA					TYPE	AMT			
																10"	1"	MO	DAY					HR./10	CRUISE NO.
31	8007	EV	3605 N	06046 W		115	60	11	01	107	1966		041		4846	15	06	4	4		X1	0	3		0053
		WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																		
		DT	SD	06	507	312	206	167	7			28													
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PD <sub>4</sub> -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ol/l}$	SIO <sub>4</sub> -Si $\mu\text{g} - \text{ol/l}$	pH	S C								
		STD	0000	2323	3611	2473	0032231	0000	15318																
107		OBS	0000	2323	36114	2473			15318																
		STD	0010	2323	3611	2473	0032270	0032	15320																
		OBS	0010	2323	36114	2473			15320																
		STD	0020	2325	3613	2473	0032279	0065	15322																
002		OBS	0020	2325	36126	2473			15322																
		OBS	0025	2325	36126	2473			15323																
		STD	0030	2325	3613	2473	0032311	0097	15324																
		OBS	0030	2325	36127	2473			15324																
		STD	0050	2332	3617	2474	0032296	0161	15329																
		OBS	0050	2332	36167	2474			15329																
		OBS	0067	2332	36189	2476			15332																
		STD	0075	2293	3637	2501	0029851	0239	15326																
		OBS	0075	2293	36480	25100																			
		STD	0100	2084	3671	2585	0021933	0304	15280																
		OBS	0100	2084	36705	2585			15280																
		STD	0125	1991	3666	2607	0019981	0356	15259																
		OBS	0125	1991	36658	2607			15259																
		STD	0150	1915	3662	2623	0018475	0404	15241																
		OBS	0150	1915	36616	2623			15241																
		STD	0200	1802	3649	2642	0016842	0493	15216																
		OBS	0200	1802	36487	2642			15216																
		STD	0250	1775	3647	2648	0016495	0576	15216																
		STD	0300	1749	3645	2653	0016168	0658	15217																
		OBS	0300	1749	36454	2653			15217																
		STD	0400	1699	3639	2660	0015817	0818	15217																
		OBS	0400	1699	36387	2660			15217																
		STD	0500	1526	3603	2672	0014842	0971	15177																
		OBS	0500	1526	36026	2672			15177																
		STD	0600	1274	3565	2696	0012621	1108	15106																
		OBS	0600	1274	35646	2696			15106																
		STD	0700	1000	3527	2718	0010507	1224	15022																
		OBS	0700	1000	35266	2718			15022																
		STD	0800	0820	3512	2736	0008778	1320	14970																
		OBS	0800	0820	35117	2736			14970																
		OBS	0812	0762	35080	27410																			
		OBS	0841	0756	35020	2737			14951																
		OBS	0881	0640	35037	2755			14912																
		STD	0900	0628	3505	2757	0006558	1397	14911																
		OBS	0900	0628	35045	2757			14911																
		STD	1000	0538	3503	2767	0005574	1458	14891																
		OBS	1000	0538	35026	2767			14891																
		STD	1100	0502	3503	2772	0005199	1511	14893																
		OBS	1100	0502	35027	2772			14893																
		STD	1200	0469	3503	2775	0004869	1562	14896																
		OBS	1200	0469	35027	2775			14896																
		STD	1300	0459	3503	2776	0004841	1610	14909																
		OBS	1300	0459	35027	2776			14909																
		STD	1400	0432	3501	2778	0004705	1658	14914																
		OBS	1400	0432	35010	2778			14914																
		STD	1500	0404	3501	2781	0004457	1704	14919																
		OBS	1500	0404	35006	2781			14919																

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FOOT	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318	0007	EV	3630 N	06120 W		115	61	11	01	149	1966		042		4800	15	07	2	4		X1	0	3	0054
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mbs)	(mbs)	DRY BULB	WET BULB															
		DT	SD	09	S18	325	288	178	7					30										
MESSENGER TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	ST CC							
149		STD	0000	2354	3626	2475	0032063	0000	15327															
		OBS	0000	2354	36257	2475			15327															
002		STD	0010	2353	3626	2475	0032075	0032	15329															
		OBS	0010	2353	36257	2475			15329															
		STD	0020	2359	3626	2474	0032268	0064	15332															
		OBS	0020	2359	36259	2474			15332															
		OBS	0025	2359	36259	2474			15333															
		STD	0030	2359	3626	2474	0032308	0097	15334															
		OBS	0030	2359	36259	2474			15334															
		OBS	0048	2356	36261	2475			15336															
		STD	0050	2340	3628	2481	0031690	0161	15332															
		OBS	0050	2340	36282	2481			15332															
		STD	0075	2119	3663	2570	0023301	0229	15284															
		OBS	0075	2119	36629	2570			15284															
		STD	0100	1949	3662	2615	0019109	0282	15243															
		OBS	0100	1949	36620	2615			15243															
		STD	0125	1871	3660	2634	0017408	0328	15225															
		OBS	0125	1871	36602	2634			15225															
		STD	0150	1841	3657	2639	0017023	0371	15220															
		OBS	0150	1841	36567	2639			15220															
		STD	0200	1792	3655	2650	0016119	0454	15214															
		OBS	0200	1792	36554	2650			15214															
		STD	0250	1779	3653	2651	0016156	0535	15218															
		STD	0300	1759	3650	2654	0016078	0615	15220															
		OBS	0300	1759	36499	2654			15220															
		STD	0400	1698	3639	2660	0015794	0774	15217															
		OBS	0400	1698	36387	2660			15217															
		STD	0500	1557	3609	2670	0015040	0929	15187															
		OBS	0500	1557	36093	2670			15187															
		STD	0600	1319	3568	2690	0013254	1070	15122															
		OBS	0600	1319	35683	2690			15122															
		STD	0700	1047	3530	2712	0011107	1192	15040															
		OBS	0700	1047	35298	2712			15040															
		STD	0800	0812	3511	2736	0008731	1291	14967															
		OBS	0800	0812	35106	2736			14967															
		OBS	0830	0720	35067	2746			14936															
		OBS	0848	0720	35094	2749			14939															
		STD	0900	0659	3507	2755	0006845	1369	14924															
		OBS	0900	0659	35067	2755			14924															
		OBS	0962	0613	35042	2759			14915															
		OBS	0979	0562	35023	2764			14897															
		OBS	0991	0573	35053	2765			14904															
		STD	1000	0553	3503	2765	0005780	1432	14897															
		OBS	1000	0553	35026	2765			14897															
		STD	1100	0496	3502	2772	0005178	1487	14891															
		OBS	1100	0496	35019	2772			14891															
		STD	1200	0460	3501	2775	0004889	1537	14892															
		OBS	1200	0460	35008	2775			14892															
		STD	1300	0440	3500	2776	0004786	1586	14901															
		OBS	1300	0440	35000	2776			14901															
		STD	1400	0421	3500	2778	0004640	1633	14910															
		OBS	1400	0421	34999	2778			14910															
		STD	1500	0421	3502	2780	0004603	1679	14927															
		OBS	1500	0421	35017	2780			14927															



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S				DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOO. STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.	STATION NUMBER				DIR.	HGT	PER	SEA		TYPE	AMT	
31	8007	EV	36562N	06138 W	115	61	11	01	176	1966		043		4938	15	10	2	2		X1	0	3		0055
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	VIS. CODE																
		DT	SD	06	520	322	228	178	7	26														
MESSAGE TIME OF HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Delta \sigma$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C							
		STD	0000	2263	3630	2505	0029239	0000	15305															
176		OBS	0000	2263	36300	2505			15305															
		STD	0010	2263	3630	2505	0029278	0029	15307															
		OBS	0010	2263	36300	2505			15307															
		STD	0020	2263	3630	2505	0029317	0059	15309															
002		OBS	0020	2263	36300	2505			15309															
		OBS	0025	2263	36300	2505			15309															
		STD	0030	2263	3630	2505	0029357	0088	15310															
		OBS	0030	2263	36300	2505			15310															
		STD	0050	2263	3630	2504	0029442	0147	15314															
		OBS	0050	2263	36299	2504			15314															
		OBS	0066	2263	36298	2504			15316															
		STD	0075	2128	3641	2551	0025140	0215	15284															
		OBS	0075	2128	36407	2551			15284															
		STD	0100	1980	3661	2606	0019980	0271	15251															
		OBS	0100	1980	36607	2606			15251															
		STD	0125	1901	3659	2625	0018250	0319	15233															
		OBS	0125	1901	36587	2625			15233															
		STD	0150	1849	3657	2637	0017209	0363	15222															
		OBS	0150	1849	36568	2637			15222															
		STD	0200	1809	3656	2646	0016473	0448	15219															
		OBS	0200	1809	36561	2646			15219															
		STD	0250	1787	3654	2650	0016274	0530	15221															
		STD	0300	1765	3651	2653	0016154	0611	15222															
		OBS	0300	1765	36508	2653			15222															
		STD	0400	1720	3642	2658	0016039	0772	15224															
		OBS	0400	1720	36424	2658			15224															
		STD	0500	1641	3628	2666	0015549	0929	15215															
		OBS	0500	1641	36284	2666			15215															
		OBS	0560	1499	36002	2676			15178															
		STD	0600	1457	3593	2680	0014375	1079	15170															
		OBS	0600	1457	35925	2680			15170															
		STD	0700	1210	3554	2700	0012413	1213	15100															
		OBS	0700	1210	35537	2700			15100															
		STD	0800	0940	3518	2722	0010275	1326	15016															
		OBS	0800	0940	35184	2722			15016															
		STD	0900	0744	3507	2743	0008122	1418	14957															
		OBS	0900	0744	35067	2743			14957															
		STD	1000	0591	3501	2759	0006449	1491	14912															
		OBS	1000	0591	35007	2759			14912															
		STD	1100	0521	3502	2769	0005486	1551	14901															
		OBS	1100	0521	35023	2769			14901															
		STD	1200	0478	3500	2772	0005180	1604	14900															
		OBS	1200	0478	35001	2772			14900															
		STD	1300	0465	3502	2775	0005002	1655	14911															
		OBS	1300		35016																			
		STD	1400	0448	3503	2778	0004781	1704	14921															
		OBS	1400	0448	35029	2778			14921															
		STD	1500	0427	3501	2779	0004735	1752	14929															
		OBS	1500	0427	35010	2779			14929															

TABLE IV.—Continued

REFERENCE		SNIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIR. INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER					
CTRY CODE	ID. NO.					10"	1"	MO	DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER SEA			TYPE	AMT						
31	8007	EV	37245N	06200 W		115	72	11	01	205	1966	044	5029	15	10	3	2		X1	0	3	0056				
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						OT	SO	13	S15	322	228	189	7	27												
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-ST07	Σ Δ D CYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	Si O <sub>4</sub> -Si μg - dl/l	pH	S C									
		STO	0000	2299	3626	2491	0030536	0000	15314																	
	205	OBS	0000	2299	36257	2491			15314																	
		STO	0010	2298	3626	2491	0030548	0031	15315																	
		OBS	0010	2298	36257	2491			15315																	
		STO	0020	2300	3626	2491	0030635	0061	15317																	
	002	OBS	0020	2300	36258	2491			15317																	
		OBS	0025	2300	36258	2491			15318																	
		STO	0030	2300	3627	2491	0030603	0092	15319																	
		OBS	0030	2300	36268	2491			15319																	
		STO	0050	2287	3630	2498	0030085	0152	15320																	
		OBS	0050	2287	36301	2498			15320																	
		STO	0075	2120	3657	2565	0023768	0420	15284																	
		OBS	0075	2120	36568	2565			15284																	
		STO	0100	1960	3661	2611	0019470	0274	15246																	
		OBS	0100	1960	36608	2611			15246																	
		STO	0125	1906	3661	2625	0018214	0321	15235																	
		OBS	0125	1906	36609	2625			15235																	
		STO	0150	1859	3657	2635	0017408	0365	15225																	
		OBS	0150	1859	36574	2635			15225																	
		STO	0200	1811	3656	2646	0016499	0450	15220																	
		OBS	0200	1811	36564	2646			15220																	
		STO	0250	1797	3655	2648	0016440	0533	15224																	
		STO	0300	1780	3653	2651	0016366	0615	15227																	
		OBS	0300	1780	36528	2651			15227																	
		STO	0400	1734	3645	2656	0016187	0777	15229																	
		OBS	0400	1734	36449	2656			15229																	
		STO	0500	1676	3634	2661	0015979	0938	15226																	
		OBS	0500	1676	36336	2661			15226																	
		STO	0600	1494	3599	2676	0014740	1092	15183																	
		OBS	0600	1494	35985	2676			15183																	
		STO	0700	1296	3562	2690	0013498	1233	15130																	
		OBS	0700	1296	35622	2690			15130																	
		STO	0800	1034	3532	2716	0010948	1355	15052																	
		OBS	0800	1034	35318	2716			15052																	
		STO	0900	0814	3508	2734	0009116	1455	14984																	
		OBS	0900	0814	35082	2734			14984																	
		STO	1000	0648	3502	2753	0007153	1537	14935																	
		OBS	1000	0648	35023	2753			14935																	
		OBS	1015	0603	34975	2755			14919																	
		OBS	1025	0616	35035	2758			14927																	
		OBS	1050	0562	34976	2760			14909																	
		STO	1100	0523	3499	2766	0005777	1601	14901																	
		OBS	1100	0523	34987	2766			14901																	
		STO	1200	0481	3499	2771	0005315	1657	14901																	
		OBS	1200	0481	34988	2771			14901																	
		STO	1300	0460	3499	2773	0005140	1709	14909																	
		OBS	1300	0460	34988	2773			14909																	
		STO	1400	0442	3499	2775	0005000	1760	14918																	
		OBS	1400	0442	34988	2775			14918																	
		STO	1500	0432	3497	2775	0005132	1811	14930																	
		OBS	1500	0432	34965	2775			14930																	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIREC. INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	WGT	PER		SEA	TYPE		AMT	
311	8007	EV	3744 N	06217 W		115	72	11	01	114	1966		045	5030	14	10	3	2		X1	0 3		0057	
						WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB			VIS. CODE								
						DT	SD	12	S15	335	206	161	7			24								
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S C							
		STD	0000	2322	3619	2479	0031626	0000	15319															
114		OBS	0000	2322	36194	2479			15319															
		STD	0010	2323	3619	2479	0031701	0032	15321															
		OBS	0010	2323	36193	2479			15321															
002		STD	0020	2323	3619	2479	0031740	0063	15322															
		OBS	0020	2323	36193	2479			15322															
		OBS	0025	2323	36193	2479			15323															
		STD	0030	2323	3619	2479	0031780	0095	15324															
		OBS	0030	2323	36193	2479			15324															
		STD	0050	2324	3620	2479	0031822	0159	15328															
		OBS	0050	2324	36202	2479			15328															
		OBS	0069	2325	36222	2481			15331															
		STD	0075	2230	3663	2539	0026277	0231	15313															
		OBS	0075	2230	36627	2539			15313															
		STD	0100	2100	3669	2580	0022444	0292	15284															
		OBS	0100	2100	36692	2580			15284															
		STD	0125	1990	3665	2606	0020042	0345	15258															
		OBS	0125	1990	36646	2606			15258															
		STD	0150	1904	3659	2625	0018370	0393	15238															
		OBS	0150	1904	36593	2625			15238															
		STD	0200	1839	3656	2639	0017202	0482	15228															
		OBS	0200	1839	36560	2639			15228															
		STD	0250	1814	3655	2644	0016846	0567	15228															
		STD	0300	1792	3654	2649	0016594	0651	15230															
		OBS	0300	1792	36536	2649			15230															
		STD	0400	1755	3646	2652	0016588	0817	15235															
		OBS	0400	1755	36462	2652			15235															
		STD	0500	1699	3636	2658	0016347	0982	15234															
		OBS	0500	1699	36359	2658			15234															
		STD	0600	1578	3609	2666	0015808	1142	15210															
		OBS	0600	1578	36094	2666			15210															
		STD	0700	1362	3576	2687	0013841	1291	15154															
		OBS	0700	1362	35761	2687			15154															
		STD	0800	1126	3543	2708	0011819	1419	15086															
		OBS	0800	1126	35431	2708			15086															
		STD	0900	0890	3518	2729	0009674	1526	15014															
		OBS	0900	0890	35177	2729			15014															
		STD	1000	0648	3501	2752	0007270	1611	14935															
		OBS	1000	0648	35007	2752			14935															
		STD	1100	0524	3498	2765	0005864	1677	14901															
		OBS	1100	0524	34977	2765			14901															
		STD	1200	0492	3499	2770	0005434	1733	14905															
		OBS	1200	0492	34992	2770			14905															
		STD	1300	0460	3500	2774	0005030	1786	14909															
		OBS	1300	0460	35003	2774			14909															
		STD	1400	0448	3500	2776	0004993	1836	14921															
		OBS	1400	0448	35000	2776			14921															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	ORIG INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIL	HGT	PER		SEA	TYPE		AMT	
31	8007	EV	3744 N	06217 W		115	72	11	02	005	1966		045	5030	30	10	3	2		X1	8	2		0058
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
				12	S15	335		206	161	7 07														
MESSAGE TIME NR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-2107		$\Sigma \Delta D$ DYN. M. x 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - ml/l	TOTAL-P µg - ml/l	NO <sub>2</sub> -N µg - ml/l	NO <sub>3</sub> -N µg - ml/l	SiO <sub>4</sub> -Si µg - ml/l	pH	S C				
		STO	0000	2328	3619	2477		0031829		0000		15320												
005		OBS	0000	2328	36189	2477						15320												
005		OBS	0009	2213	36205	2512						15293												
005		OBS	T1375	0448	34965	2773						14916												
		STD	1400	0445	3496	2773		0005246				14919												
		STD	1500	0434	3496	2774		0005195				14931												
		STD	1750	0408	3495	2776		0005146				14962												
005		OBS	T1939	0390	34949	2778						14987												
		STO	2000	0387	3495	2778		0005071				14996												
005		OBS	T2429	0349	34955	2782						15053												
		STO	2500	0340	3495	2783		0004756				15062												
005		OBS	T2900	0277	34947	2789						15104												
		STD	3000		3494																			
005		OBS	3000	0317Q	34938	2784Q																		

TABLE IV.—Continued

120

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DIRECT SUN	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					MO	DAY	HR. 1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT			PER	SEA	TYPE		AMT			
																					10"		1"
318007	EV	3835 N	06258 W	115 82	11 02	072	1966		047		4800	15	12	2	2		X1	0	3		0060		
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB												
				OT	SD	10	520	322	222	178	7	26											
MESSAGE TIME OF HR 1/10	CASE NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ D DYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>2</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>2</sub> -Si μg - at/l	pH					
		STO	0000	2320	3623	2482	0031347		0000		15319												
072		OBS	0000	2320	36225	2482					15319												
		STO	0010	2319	3622	2482	0031402		0031		15320												
		OBS	0010	2319	36219	2482					15320												
		STO	0020	2309	3622	2485	0031151		0063		15319												
002		OBS	0020	2309	36221	2485					15319												
		OBS	0025	2309	36221	2485					15320												
		STO	0030	2309	3622	2485	0031190		0094		15321												
		OBS	0030	2309	36221	2485					15321												
		STO	0050	2309	3622	2485	0031254		0156		15324												
		OBS	0050	2309	36223	2485					15324												
		STO	0075	2309	3622	2485	0031345		0235		15328												
		OBS	0075	2309	36224	2485					15328												
		OBS	0085	2309	36225	2486					15330												
		STO	0100	2185	3659	2548	0025450		0306		15305												
		OBS	0100	2185	36587	2548					15305												
		STO	0125	2040	3667	2594	0021164		0364		15272												
		OBS	0125	2040	36667	2594					15272												
		STO	0150	1960	3665	2614	0019378		0414		15254												
		OBS	0150	1960	36646	2614					15254												
		STO	0200	1839	3657	2639	0017122		0506		15228												
		OBS	0200	1839	36571	2639					15228												
		STO	0250	1817	3657	2645	0016774		0590		15230												
		STO	0300	1795	3655	2649	0016557		0674		15231												
		OBS	0300	1795	36551	2649					15231												
		STO	0400	1755	3649	2654	0016422		0839		15235												
		OBS	0400	1755	36485	2654					15235												
		STO	0500	1673	3632	2661	0016003		1001		15225												
		OBS	0500	1673	36323	2661					15225												
		STO	0600	1481	3596	2677	0014639		1154		15178												
		OBS	0600	1481	35960	2677					15178												
		STO	0700	1248	3555	2694	0013077		1293		15113												
		OBS	0700	1248	35548	2694					15113												
		STO	0800	1007	3529	2718	0010677		1411		15042												
		OBS	0800	1007	35289	2718					15042												
		STO	0900	0748	3505	2741	0008338		1506		14958												
		OBS	0900	0748	35046	2741					14958												
		OBS	0941	0656	35039	2753					14929												
		STO	1000	0594	3501	2759	0006491		1581		14913												
		OBS	1000	0594	35007	2759					14913												
		STO	1100	0524	3501	2767	0005637		1641		14902												
		OBS	1100	0524	35008	2767					14902												
		STO	1200	0472	3499	2772	0005151		1695		14897												
		OBS	1200	0472	34994	2772					14897												
		STO	1300	0456	3501	2775	0004962		1746		14907												
		OBS	1300	0456	35005	2775					14907												
		STO	1400	0435	3499	2776	0004907		1795		14915												
		OBS	1400	0435	34988	2776					14915												
		STO	1500	0418	3499	2778	0004790		1844		14925												
		OBS	1500	0418	34986	2778					14925												



TABLE IV.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.	CODE	" 1/10	" 1/10		10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318007		EV	3901 N	06319 W		115	93	11	02	103	1966		048	493d	15	15	4	3		X2	0	3	0061
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
				COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)		DRY BULB	WET BULB												
				DT	SD	14	S25	312		228	183	7	3d										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ DYN. M. x 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CODE			
		STD	0000	2543	3621	2414		0037839		0000		15372											
103		OBS	0000	2543	36208	2414						15372											
		STD	0010	2545	3621	2414		0037939		0038		15374											
		OBS	0010	2545	36208	2414						15374											
		STD	0020	2545	3621	2414		0037980		0076		15376											
002		OBS	0020	2545	36208	2414						15376											
		OBS	0025	2545	36208	2414						15376											
		STD	0030	2545	3621	2414		0038021		0114		15377											
		OBS	0030	2545	36208	2414						15377											
		STD	0050	2545	3621	2414		0038103		0190		15381											
		OBS	0050	2545	36208	2414						15381											
		OBS	0070	2545	36211	2414						15384											
		STD	0075	2499	3632	2436		0036038		0283		15375											
		OBS	0075	2499	36322	2436						15375											
		STD	0100	2295	3636	2500		0030084		0365		15330											
		OBS	0100	2295	36359	2500						15330											
		STD	0125	2170	3673	2563		0024150		0433		15307											
		OBS	0125	2170	36725	2563						15307											
		STD	0150	2028	3666	2597		0021029		0490		15273											
		OBS	0150	2028	36656	2597						15273											
		STD	0200	1825	3648	2636		0017472		0586		15223											
		OBS	0200	1825	36476	2636						15223											
		OBS	0216	1823	36427	2632						15224											
		STD	0250	1720	3631	2649		0016364		0670		15198											
		STD	0300	1581	3612	2667		0014776		0748		15162											
		OBS	0300	1581	36117	2667						15162											
		OBS	0365	1424	35827	2679						15120											
		OBS	0381	1241	35441	2687						15057											
		STD	0400	1222	3549	2694		0012257		0883		15054											
		OBS	0400	1222	35486	2694						15054											
		OBS	0410	1222	35490	2695						15056											
		OBS	0426	1147	35407	2702						15031											
		OBS	0440	1160	35427	2702						15038											
		OBS	0450	1130	35367	2702						15029											
		OBS	0475	0880	34999	2717						14937											
		STD	0500	0899	3502	2715		0010219		0996		14949											
		OBS	0500	0899	35017	2715						14949											
		OBS	0508	0981	35250	2720						14983											
		OBS	0528	0980	35252	2720						14986											
		OBS	0580	0825	35087	2732						14935											
		STD	0600	0791	3502	2732		0008710		1090		14925											
		OBS	0600	0820P	35016	2728P																	
		STD	0700	0629	3498	2752		0006788		1168		14877											
		OBS	0700	0629	34977	2752						14877											
		OBS	0756	0543	34897	2756						14851											
		OBS	0785	0543	35017	2766						14857											
		STD	0800	0520	3501	2768		0005210		1228		14850											
		OBS	0800	0520	3493P	2762P																	
		STD	0900	0500	3499	2769		0005222		1280		14859											
		OBS	0900	0500	34989	2769						14859											
		STD	1000	0480	3501	2773		0004943		1331		14867											
		OBS	1000	0480	35007	2773						14867											
		STD	1100	0456	3501	2775		0004739		1379		14874											
		OBS	1100	0456	35007	2775						14874											
		STD	1200	0438	3500	2777		0004630		1426		14883											
		OBS	1200	0438	35004	2777						14883											
		STD	1300	0422	3500	2778		0004564		1472		14893											
		OBS	1300	0422	34998	2778						14893											
		STD	1400	0420	3500	2779		0004597		1518		14909											
		OBS	1400	0420	35003	2779						14909											
		STD	1500	0419	3501	2779		0004650		1564		14926											
		OBS	1500	0419	35007	2779						14926											

TABLE IV.—Continued

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTN TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
31	8007	EV	3925 N	06347 W		115	93	11	02	126	1966		049		4938	14	12	7	2		X2	0	3	0062			
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL												
COLOR CODE	TRANS. INI	DIR.	SPEED OR FORCE	AIR TEMP. °C		DRY BULB	WET BULB																				
OT	SO	14	S25	328	239	178	7	38																			
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ σ DTN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH										
126		STD	0000	2411	3592	2432	0036127		0000	15337																	
		OBS	0000	2411	35916	2432				15337																	
		STD	0010	2411	3592	2432	0036167		0036	15339																	
		OBS	0010	2411	35916	2432				15339																	
		STD	0020	2408	3591	2433	0036143		0072	15340																	
		OBS	0020	2408	35913	2433				15340																	
		OBS	0025	2405	35911	2434				15340																	
		STD	0030	2398	3587	2433	0036209		0108	15339																	
		OBS	0030	2398	35870	2433				15339																	
		STD	0050	2398	3587	2433	0036289		0181	15342																	
		OBS	0050	2398	35870	2433				15342																	
		OBS	0070	2400	36457	2476				15352																	
		STD	0075	2340	3650	2497	0030241		0264	15339																	
		OBS	0075	2340	36497	2497				15339																	
		STD	0100	2154	3654	2554	0024934		0333	15297																	
		OBS	0100	2154	36544	2554				15297																	
		STD	0125	1979	3651	2598	0020769		0390	15254																	
		OBS	0125	1979	36507	2598				15254																	
		STD	0150	1859	3645	2625	0018313		0439	15224																	
		OBS	0150	1859	36449	2625				15224																	
		STD	0200	1760	3639	2645	0016572		0526	15203																	
		OBS	0200	1760	36387	2645				15203																	
		OBS	0238	1619	36100	2657				15163																	
		OBS	0249	1464	35694	2660				15112																	
		STD	0250	1476	3572	2660	0015239		0606	15116																	
		OBS	0256	1530	35826	2656				15135																	
		OBS	0288	1260	35431	2682				15048																	
		STD	0300	1269	3553	2688	0012600		0675	15054																	
		OBS	0300	1269	35527	2688				15054																	
		OBS	0310	1297	35626	2690				15066																	
		OBS	0330	0974P	3510P	2709P																					
		OBS	0346	1106	35352	2706				15003																	
		OBS	0355	1106	35346	2705				15004																	
		STD	0400	1002	3526	2717	0009923		0788	14974																	
		OBS	0400	1002	35262	2717				14974																	
		OBS	0410	1000	35257	2717				14974																	
		OBS	0430	0904	35134	2724				14941																	
		OBS	0450	0860	35126	2730				14927																	
		OBS	0481	0857	35138	2731				14932																	
		STD	0500	0813	3511	2736	0008192		0879	14918																	
	OBS	0500	0813	35108	2736				14918																		
	OBS	0540	0719	35006	2742				14887																		
	STD	0600	0658	3505	2754	0006508		0952	14873																		
	OBS	0600	0658	35050	2754				14873																		
	STD	0700	0533	3500	2765	0005367		1011	14839																		
	OBS	0700	0533	34995	2765				14839																		
	STD	0800	0493	3501	2771	0004862		1063	14839																		
	OBS	0800	0493	3508P	2777P																						
	STD	0900	0470	3502	2774	0004645		1110	14847																		
	OBS	0900	0470	35015	2774				14847																		
	STD	1000	0447	3501	2776	0004519		1156	14854																		
	OBS	1000	0447	35007	2776				14854																		
	STD	1100	0434	3501	2778	0004434		1201	14865																		
	OBS	1100	0434	35010	2778				14865																		
	STD	1200	0419	3500	2779	0004422		1245	14875																		
	OBS	1200	0419	34999	2779				14875																		
	STD	1300	0409	3500	2780	0004403		1289	14888																		
	OBS	1300	0409	34997	2780				14888																		
	STD	1400	0400	3500	2780	0004393		1333	14901																		
	OBS	1400	0400	34995	2780				14901																		
	OBS	1450	0397	34993	2781				14908																		

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR	HGT		PER	SEA		TYPE
318007	EV		4005 N	06356 W	151	03	11	02	161	1966		050	4755	15	13	3	2		X2	03		0063	
				WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS									
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
				OT	SD	14	S22	322	184	142	7	38											
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ D DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SID <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STO	0000	1440	3315	2469	0032586	0000	15032														
161		OBS	0000	1440	33147	2469			15032														
		STD	0010	1581	3363	2476	0032027	0032	15084														
		OBS	0010	1581	33627	2476			15084														
		STD	0020	1653	3407	2493	0030412	0064	15113														
002		OBS	0020	1653	34067	2493			15113														
		OBS	0025	1675	34130	2493			15122														
		STD	0030	1696	3424	2496	0030170	0094	15130														
		OBS	0030	1696	34236	2496			15130														
		OBS	0040	1763	34587	2507			15156														
		OBS	0049	1174	33806	2573			14959														
		STD	0050	1282	3423	2585	0021717	0146	15001														
		OBS	0050	1282	34227	2585			15001														
		OBS	0052	1000	33627	2590			14895														
		OBS	0056	1273	34516	2609			15003														
		OBS	0063	1214	34314	2605			14981														
		OBS	0065	1249	34546	2616			14996														
		STD	0075	1003	3424	2637	0016775	0194	14907														
		OBS	0075	1003	34239	2637			14907														
		OBS	0085	1270	35107	2655			15014														
		STD	0100	1350	3547	2667	0014077	0232	15048														
		OBS	0100	1350	35467	2667			15048														
		OBS	0105	1324	35427	2669			15039														
		OBS	0110	1357	35587	2675			15053														
		STD	0125	1276	3545	2681	0012853	0266	15027														
		OBS	0125	1276	35447	2681			15027														
		STD	0150	1210	3543	2692	0011784	0297	15008														
		OBS	0150	1210	35432	2692			15008														
		OBS	0171	1121	35287	2698			14979														
		STD	0200	1071	3529	2707	0010467	0352	14966														
		OBS	0200	1071	35288	2707			14966														
		STD	0250	0979	3523	2719	0009446	0402	14940														
		OBS	0271	0918	35168	2724			14920														
		STD	0300	0812	3505	2731	0008276	0447	14884														
		OBS	0300	0812	35045	2731			14884														
		STD	0400	0613	3496	2752	0006291	0519	14821														
		OBS	0400	0613	34957	2752			14821														
		OBS	0428	0562	34926	2756			14805														
		OBS	0440	0570	34962	2758			14811														
		STD	0500	0539	3499	2764	0005252	0577	14808														
		OBS	0500	0539	34987	2764			14808														
		STD	0600	0492	3501	2771	0004648	0627	14806														
		OBS	0600	0492	35006	2771			14806														
		OBS	0695	0471	35007	2774			14813														
		STD	0700	0444	3496	2773	0004532	0673	14802														
		OBS	0700	0444	34958	2773			14802														
		STD	0800	0440	3500	2777	0004254	0716	14817														
		OBS	0800	0440	35003	2777			14817														
		STD	0900	0427	3500	2778	0004242	0759	14829														
		OBS	0900	0427	34997	2778			14829														
		STD	1000	0415	3500	2779	0004200	0801	14840														
		OBS	1000	0415	34996	2779			14840														
		STD	1100	0405	3499	2780	0004202	0843	14853														
		OBS	1100	0405	34992	2780			14853														
		STD	1200	0393	3498	2780	0004225	0885	14864														
		OBS	1200	0393	34981	2780			14864														
		STD	1300	0384	3497	2780	0004267	0928	14877														
		OBS	1300	0384	34972	2780			14877														
		STD	1400	0379	3498	2781	0004232	0970	14892														
		OBS	1400	0379	34980	2781			14892														
		STD	1500	0377	3499	2783	0004205	1012	14908														
		OBS	1500	0377	34992	2783			14908														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			MAX. OBS. DEPTHS					TYPE	AMT	
																DIR	HGT	PER	SEA				
318007	EV	4023 N	06418 W	151	04	11	02	192	1966		051	4573	15	14	3	3		X2	0	3		0064	
						WATER		WIND		BARO- METER (mbs)		AIR TEMP. °C		NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED DI FORCE	DRY BULB	WET BULB	WIL CODE											
						DT	SD	15	S20				295									206	161
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T		SPECIFIC VOLUME ANDWALT-X10 <sup>3</sup>		Σ Δ C DYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>3</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	Si O <sub>4</sub> -Si μg - ml/l	pH	S C			
		STD	0000	1570	3367	2481		0031485	0000	15080													
192		OBS	0000	1570	33665	2481				15080													
		STD	0010	1570	3367	2481		0031514	0031	15081													
		OBS	0010	1570	33665	2481				15081													
002		OBS	0014	1570	33665	2481				15082													
		STD	0020	1625	3393	2489		0030796	0063	15103													
		OBS	0020	1625	33930	2489				15103													
		OBS	0025	1650	34080	2495				15113													
		STD	0030	1660	3411	2494		0030320	0093	15118													
		OBS	0030	1660	34105	2494				15118													
		OBS	0040	1660	34105	2494				15119													
		OBS	0045	1420	33955	2536				15043													
		OBS	0048	1420	34455	2574				15049													
		STD	0050	1480	3496	2600		0020312	0144	15075													
		OBS	0050	1480	34955	2600				15075													
		OBS	0052	1490	34940	2597				15078													
		OBS	0054	1445	34845	2599				15063													
		OBS	0058	1475	35150	2616				15077													
		OBS	0064	1385	34955	2620				15047													
		OBS	0066	1290	34870	2633				15015													
		STD	0075	1270	3504	2650		0015626	0189	15011													
		OBS	0075	1270	35035	2650				15011													
		STD	0100	1245	3535	2679		0012909	0224	15011													
		OBS	0100	1245	35350	2679				15011													
		STD	0125	1172	3537	2695		0011484	0255	14990													
		OBS	0125	1172	35369	2695				14990													
		STD	0150	1108	3531	2702		0010855	0283	14971													
		OBS	0150	1108	35307	2702				14971													
		STD	0200	0979	3518	2714		0009743	0334	14931													
		OBS	0200	0979	35175	2714				14931													
		STD	0250	0883	3510	2724		0008861	0381	14903													
		STD	0300	0780	3504	2736		0007824	0423	14871													
		OBS	0300	0780	35042	2736				14871													
		OBS	0350	0670	34992	2747				14836													
		STD	0400	0611	3498	2754		0006117	0492	14821													
		OBS	0400	0611	34977	2754				14821													
		STD	0500	0525	3499	2766		0005084	0548	14803													
		OBS	0500	0525	34986	2766				14803													
		STD	0600	0480	3499	2771		0004590	0597	14801													
		OBS	0600	0480	34994	2771				14801													
		STD	0700	0459	3500	2774		0004409	0642	14809													
		OBS	0700	0459	34999	2774				14809													
		STD	0800	0439	3500	2777		0004264	0685	14817													
		OBS	0800	0439	35000	2777				14817													
		STD	0900	0430	3501	2778		0004205	0727	14830													
		OBS	0900	0430	35007	2778				14830													
		STD	1000	0415	3500	2779		0004193	0769	14840													
		OBS	1000	0415	34997	2779				14840													
		STD	1100	0404	3500	2780		0004167	0811	14852													
		OBS	1100	0404	34995	2780				14852													
		STD	1200	0396	3499	2781		0004174	0853	14866													
		OBS	1200	0396	34993	2781				14866													
		STD	1300	0390	3500	2782		0004160	0895	14880													
		OBS	1300	0390	34997	2782				14880													
		STD	1400	0384	3499	2782		0004194	0936	14894													
		OBS	1400	0384	34994	2782				14894													
		STD	1500	0380	3500	2783		0004214	0978	14909													
		OBS	1500	0380	34996	2783				14909													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRAFT INCHES	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S				DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	IO. NO.						10°	1°	MO	DAY		HR. 1/10	CRUISE NO.	STATION NUMBER				DIR.	HGT	PER	SEA		TYPE	AMT	
31	8007						EV	4023 N	06418 W	151		04	11	02	205			1966		051			4573	34	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
COLOR CODE		TRANS. (m)		DIR.		SPEED OR FORCE		DRY BULB					WET BULB												
		15		S20		295		206					161												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ OBS. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ol/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ol/l}$	pH	SIG C						
205		OBS	0011	1567	33670	24820																			
		STD	0020	1625																					
205		OBS	0028	1676	34130	2492					15122														
205		OBS	T1501	0377	34956	2780					14907														
		STD	1750	0362	3495	2781		0004522			14943														
		STD	2000	0345	3495	2782		0004487			14978														
205		OBS	T2131	0336	34947	2783					14997														
		STD	2500	0306	3494	2785		0004364			15047														
205		OBS	T2671	0292	34930	2786					15070														
		STD	3000	0264	3491	2787		0004262			15115														
205		OBS	3290	0245	34899	2788					15157														
205		OBS	3400	0239	34899	2788					15174														

TABLE IV.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DOBT INCH	MARS DEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT			
318007	EV	4041 N	06435 W		151	04	11	02	232	1966		052		4389	15	12	6	4		X2	0	3		0066
					WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
					DT	SD	15	520		281	206					167	7	28						
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S C					
232		STD	0000	1870	3476	2493		0030342		0000	15182													
		OBS	0000	1870	34755	2493					15182													
002		STD	0010	1870	3475	2492		0030449		0030	15184													
		OBS	0010	1870	34745	2492					15184													
		STD	0020	1870	3475	2492		0030482		0061	15185													
		OBS	0020	1870	34745	2492					15185													
		OBS	0025	1870	34745	2492					15186													
		STD	0030	1870	3475	2492		0030516		0091	15187													
		OBS	0030	1870	34745	2492					15187													
		OBS	0040	1870	34745	2492					15189													
		STD	0050	1420	3491	2609		0019448		0141	15055													
		OBS	0050	1420	34905	2609					15055													
		OBS	0070	1280	35315	2670					15017													
		STD	0075	1285	3533	2670		0013748		0183	15020													
		OBS	0075	1285	35330	2670					15020													
		OBS	0085	1275	35335	2672					15018													
		STD	0100	1220	3529	2679		0012919		0216	15002													
		OBS	0100	1220	35285	2679					15002													
		STD	0125	1135	3537	2702		0010825		0246	14977													
		OBS	0125	1135	35368	2702					14977													
		STD	0150	1078	3530	2707		0010368		0272	14960													
		OBS	0150	1078	35302	2707					14960													
	STD	0200	0940	3517	2720		0009168		0321	14917														
	OBS	0200	0940	35167	2720					14917														
	STD	0250	0784	3506	2737		0007660		0363	14865														
	STD	0300	0670	3501	2749		0006539		0399	14828														
	OBS	0300	0670	35006	2749					14828														
	STD	0400	0570	3502	2763		0005253		0458	14805														
	OBS	0400	0570	35022	2763					14805														
	OBS	0450	0496	34948	2766					14782														
	STD	0500	0482	3500	2772		0004478		0506	14785														
	OBS	0500	0482	34997	2772					14785														
	STD	0600	0470	3500	2773		0004425		0551	14797														
	OBS	0600	0470	35000	2773					14797														
	STD	0700	0447	3501	2776		0004205		0594	14804														
	OBS	0700	0447	35007	2776					14804														
	STD	0800	0426	3500	2778		0004115		0636	14812														
	OBS	0800	0426	34999	2778					14812														
	STD	0900	0417	3500	2779		0004120		0677	14824														
	OBS	0900	0417	34997	2779					14824														
	STD	1000	0398	3498	2779		0004118		0718	14833														
	OBS	1000	0398	34979	2779					14833														
	STD	1100	0397	3499	2780		0004102		0759	14849														
	OBS	1100	0397	34992	2780					14849														
	STD	1200	0380	3498	2781		0004071		0800	14859														
	OBS	1200	0380	34980	2781					14859														
	STD	1300	0380	3498	2781		0004151		0841	14876														
	OBS	1300	0380	34981	2781					14876														
	STD	1400	0372	3498	2782		0004128		0882	14889														
	OBS	1400	0372	34982	2782					14889														
	STD	1500	0370	3499	2783		0004151		0924	14905														
	OBS	1500	0370	34987	2783					14905														



TABLE IV.—Continued

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDICAT	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
						10"	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	NGT	PER	SEA		TYPE	AMT		
						10"	1'	MO	DAY	HR./10														
318007		EV	4101 N	06453 W		151	14	11	03	030	1966		053	3612	15	15	5	3		X2	013		0067	
				WATER		WIND		SPEED OF FORCE		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)		DIR.		S22		274		167		150												
DT		SD		12		S22		274		167		150												
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma_t$ M. $\times 10^3$		SOUND VELOCITY		O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO <sub>2</sub> -N $\mu g - ml/l$	NO <sub>3</sub> -N $\mu g - ml/l$	SiO <sub>4</sub> -Si $\mu g - ml/l$	pH	S C				
		STD	0000	1214	3204	2429	0036476		0000		14942													
030		OBS	0000	1214	32035	2429					14942													
		STD	0010	1215	3204	2428	0036516		0036		14944													
		OBS	0010	1215	32035	2428					14944													
		STD	0020	1217	3204	2428	0036573		0073		14947													
002		OBS	0020	1217	32035	2428					14947													
		OBS	0025	1110	32090	2452					14911													
		STD	0030	0918	3237	2506	0029195		0106		14845													
		OBS	0030	0918	32370	2506					14845													
		OBS	0048	0426	33255	2640					14664													
		STD	0050	0463	3345	2651	0015355		0150		14682													
		OBS	0050	0463	33450	2651					14682													
		OBS	0065	0420	33650	2672					14669													
		STD	0075	0480	3392	2686	0012070		0185		14700													
		OBS	0075	0480	33915	2686					14700													
		OBS	0079	0494	33945	2687					14707													
		OBS	0084	0454	33805	2680					14689													
		STD	0100	0460	3403	2697	0011019		0214		14697													
		OBS	0100	0460	34030	2697					14697													
		STD	0125	0598	3445	2714	0009528		0239		14763													
		OBS	0125	0598	34445	2714					14763													
		OBS	0135	0668	34675	2723					14796													
		STD	0150	0650	3463	2721	0008863		0262		14790													
		OBS	0150	0650	34627	2721					14790													
		OBS	0169	0500	34487	2729					14731													
		OBS	0189	0481	34539	2735					14727													
		STD	0200	0507	3463	2739	0007180		0302		14741													
		OBS	0200	0507	34627	2739					14741													
		OBS	0205	0541	34746	2745					14757													
		OBS	0210	0519	34648	2740					14748													
		OBS	0230	0567	34827	2748					14773													
		STD	0250	0586	3484	2746	0006614		0337		14784													
		OBS	0252	0588	34840	2746					14785													
		OBS	0260	0555	34824	2749					14773													
		OBS	0270	0555	34877	2753					14775													
		STD	0300	0551	3488	2754	0005947		0368		14779													
		OBS	0300	0551	34879	2754					14779													
		STD	0400	0518	3494	2763	0005202		0424		14783													
		OBS	0400	0518	34942	2763					14783													
		STD	0500	0459	3495	2770	0004592		0473		14775													
		OBS	0500	0459	34945	2770					14775													
		STD	0600	0434	3495	2773	0004391		0518		14781													
		OBS	0600	0434	34947	2773					14781													
		STD	0700	0431	3497	2775	0004310		0561		14797													
		OBS	0700	0431	34967	2775					14797													
		STD	0800	0414	3498	2777	0004142		0604		14806													
		OBS	0800	0414	34976	2777					14806													
		STD	0900	0400	3497	2778	0004122		0645		14817													
		OBS	0900	0400	34969	2778					14817													
		STD	1000	0399	3498	2779	0004152		0686		14833													
		OBS	1000	0399	34976	2779					14833													
		STD	1100	0384	3497	2780	0004127		0728		14844													
		OBS	1100	0384	34967	2780					14844													
		STD	1200	0380	3497	2780	0004159		0769		14859													
		OBS	1200	0380	34968	2780					14859													
		STD	1300	0375	3497	2781	0004169		0811		14873													
		OBS	1300	0375	34970	2781					14873													
		STD	1400	0370	3498	2782	0004140		0852		14888													
		OBS	1400	0370	34977	2782					14888													
		STD	1500	0367	3498	2782	0004185		0894		14904													
		OBS	1500	0367	34977	2782					14904													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	DEPTH METER	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			WAVE OBSERVATIONS					CLOUD CODES		
318	007	EV	4126 N	06521 W		151	15	11	03	066	1966		054	2633	15	10	7	2		X2	0	3	0068
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB																	
DT	SD	13	520	251	161	144	6	34															
MESSNGR TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta O$ OTN, M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - \mu l/l$	TOTAL-P $\mu g - \mu l/l$	NO <sub>2</sub> -N $\mu g - \mu l/l$	NO <sub>3</sub> -N $\mu g - \mu l/l$	SiO <sub>4</sub> -Si $\mu g - \mu l/l$	pH	S C						
		STD	0000	1220	3181	2410	0038242	0000	14942														
066		OBS	0000	1220	31810	2410			14942														
		STD	0010	1121	3181	2428	0036544	0037	14908														
		OBS	0010	1121	31810	2428			14908														
		STD	0020	0880	3186	2472	0032405	0072	14822														
002		OBS	0020	0880	31860	2472			14822														
		OBS	0025	0740	31950	2499			14770														
		STD	0030	0721	3206	2510	0028749	0102	14765														
		OBS	0030	0721	32060	2510			14765														
		STD	0050	0509	3249	2570	0023048	0154	14689														
		OBS	0050	0509	32490	2570			14689														
		STD	0075	0228	3300	2637	0016681	0204	14580														
		OBS	0075	0228	32995	2637			14580														
		OBS	0080	0215	33015	2639			14575														
		STD	0100	0377	3383	2690	0011680	0439	14660														
		OBS	0100	0377	33830	2690			14660														
		STD	0125	0439	3403	2699	0010859	0268	14692														
		OBS	0125	0439	34025	2699			14692														
		OBS	0132	0452	34065	2701			14699														
		OBS	0138	0508	34255	2710			14726														
		STD	0150	0508	3428	2711	0009765	0293	14728														
		OBS	0150	0508	34275	2711			14728														
		STD	0200	0500	3446	2727	0008385	0339	14736														
		OBS	0200	0500	34455	2727			14736														
		OBS	0214	0503	34510	2731			14740														
		OBS	0220	0619	34965	2752			14794														
		STD	0250	0560	3484	2750	0006261	0375	14774														
		OBS	0250	0560	34843	2750			14774														
		OBS	0269	0580	34837	2747			14785														
		STD	0300	0538	3479	2748	0006467	0407	14772														
		OBS	0300	0538	34788	2748			14772														
		OBS	0310	0520	34886	2758			14768														
		OBS	0318	0556	34907	2756			14784														
		OBS	0349	0549	34928	2758			14787														
		STD	0400	0497	3494	2765	0004972	0464	14774														
		OBS	0400	0497	34939	2765			14774														
		STD	0500	0438	3490	2769	0004669	0513	14766														
		OBS	0500	0438	34902	2769			14766														
		STD	0600	0440	3494	2771	0004543	0559	14783														
		OBS	0600	0440	34936	2771			14783														
		STD	0700	0428	3495	2774	0004401	0603	14795														
		OBS	0700	0428	34950	2774			14795														
		STD	0800	0421	3495	2775	0004410	0647	14809														
		OBS	0800	0421	34951	2775			14809														
		STD	0900	0414	3496	2776	0004387	0691	14823														
		OBS	0900	0414	34956	2776			14823														
		STD	1000	0410	3497	2777	0004353	0735	14838														
		OBS	1000	0410	34967	2777			14838														
		STD	1100	0399	3497	2778	0004311	0778	14850														
		OBS	1100	0399	34967	2778			14850														
		STD	1200	0386	3497	2780	0004241	0821	14861														
		OBS	1200	0386	34967	2780			14861														
		STD	1300	0380	3497	2780	0004261	0864	14875														
		OBS	1300	0380	34966	2780			14875														
		STD	1400	0376	3497	2781	0004297	0906	14891														
		OBS	1400	0376	34966	2781			14891														
		STD	1500	0370	3497	2781	0004297	0949	14905														
		OBS	1500	0370	34967	2781			14905														

TABLE IV.—Continued

REFERENCE	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME GMT				YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER																																																													
					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT																																																															
318007	EV	4152 N	06543 W		151	15	11	03	098		1966		055	0667	07	12	7	4		X2	0	3		0069																																																												
<table><tr><td colspan="4">WATER</td><td colspan="4">WIND</td><td colspan="4">AIR TEMP. °C</td><td colspan="4">NO. OBS. DEPTHS</td><td colspan="4">SPECIAL OBSERVATIONS</td></tr><tr><td>COLOR CODE</td><td>TRANS. (m)</td><td>DIR.</td><td>SPEED OR FORCE</td><td>BARO-METER (mb)</td><td>DRY BULB</td><td>WET BULB</td><td>VIS. CODE</td><td colspan="4"></td><td colspan="4"></td><td colspan="4"></td></tr><tr><td>DT</td><td>SD</td><td>13</td><td>S35</td><td>217</td><td>172</td><td>161</td><td>7</td><td colspan="4"></td><td colspan="4"></td><td colspan="4"></td></tr></table>																									WATER				WIND				AIR TEMP. °C				NO. OBS. DEPTHS				SPECIAL OBSERVATIONS				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE													DT	SD	13	S35	217	172	161	7												
WATER				WIND				AIR TEMP. °C				NO. OBS. DEPTHS				SPECIAL OBSERVATIONS																																																																				
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE																																																																													
DT	SD	13	S35	217	172	161	7																																																																													
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	Σ Δ σ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	STATION CODE																																																																			
		STD	0000	0920	3249	2514	0028320	0000	14842																																																																											
098		OBS	0000	0920	32485	2514			14842																																																																											
		STD	0010	0919	3249	2514	0028322	0028	14843																																																																											
		OBS	0010	0919	32485	2514			14843																																																																											
001		STD	0020	0917	3249	2515	0028309	0057	14844																																																																											
		OBS	0020	0917	32485	2515			14844																																																																											
		OBS	0025	0880	32535	2524			14832																																																																											
		STD	0030	0840	3255	2532	0026716	0084	14818																																																																											
		OBS	0030	0840	32550	2532			14818																																																																											
		STD	0050	0632	3309	2603	0019965	0131	14747																																																																											
		OBS	0050	0632	33090	2603			14747																																																																											
		STD	0075	0575	3341	2635	0016958	0177	14732																																																																											
		OBS	0075	0575	33405	2635			14732																																																																											
		OBS	0095	0573	33605	2651			14737																																																																											
		STD	0100	0549	3367	2658	0014740	0217	14729																																																																											
		OBS	0100	0549	33665	2658			14729																																																																											
		OBS	0111	0477	33740	2673			14702																																																																											
		STD	0125	0480	3378	2675	0013133	0251	14706																																																																											
		OBS	0125	0480	33780	2675			14706																																																																											
		OBS	0130	0478	33780	2676			14706																																																																											
		OBS	0131	0500	33860	2679			14716																																																																											
		STD	0150	0503	3387	2679	0012776	0284	14721																																																																											
		OBS	0150	0503	33865	2679			14721																																																																											
		STD	0200	0499	3415	2702	0010660	0342	14731																																																																											
		OBS	0200	0499	34149	2702			14731																																																																											
		STD	0250	0501	3441	2723	0008789	0391	14744																																																																											
		STD	0300	0503	3460	2737	0007474	0432	14755																																																																											
		OBS	0300	0503	34597	2737			14755																																																																											
		STD	0400	0460	3477	2756	0005813	0498	14756																																																																											
		OBS	0400	0460	34768	2756			14756																																																																											
		STD	0500	0447	3484	2763	0005219	0553	14768																																																																											
		OBS	0500	0447	34842	2763			14768																																																																											
		STD	0600	0448	3485	2763	0005298	0606	14786																																																																											
		OBS	0600	0448	34847	2763			14786																																																																											
		OBS	0660	0445	34867	2765			14794																																																																											

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER				DIR.	HGT	PER	SEA		TYPE	AMT					
						151	25	11	03	131				056												0225	02	15
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
						COLOR CODE	TRANS. mi	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																
						01	50	13	540		190	139					128	8	23									
MESSENGR TIME OF HR. 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-20°	Σ Δ D OYN, M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - ml/l	TOTAL-P µg - ml/l	NO <sub>2</sub> -N µg - ml/l	NO <sub>3</sub> -N µg - ml/l	SiO <sub>4</sub> -Si µg - ml/l	pH	S C C											
		STD	0000	0891	3225	2501	0029605	0000	14828																			
131		OBS	0000	0891	32254	2501			14828																			
		STD	0010	0890	3225	2501	0029607	0030	14829																			
		OBS	0010	0890	32254	2501			14829																			
		STD	0020	0885	3225	2502	0029550	0059	14829																			
000		OBS	0020	0885	32254	2502			14829																			
		OBS	0025	0884	32254	2502			14830																			
		STD	0030	0880	3225	2502	0029493	0089	14829																			
		OBS	0030	0880	32254	2502			14829																			
		OBS	0039	0693	32130	2519			14756																			
		OBS	0046	0660	32380	2543			14748																			
		STD	0050	0547	3253	2569	0023163	0141	14705																			
		OBS	0050	0547	32530	2569			14705																			
		OBS	0066	0458	32875	2606			14675																			
		OBS	0070	0400	33045	2626			14654																			
		STD	0075	0399	3314	2633	0017100	0192	14655																			
		OBS	0075	0399	33135	2633			14655																			
		OBS	0080	0395	33150	2634			14655																			
		OBS	0082	0368	33255	2645			14645																			
		OBS	0086	0371	33390	2656			14649																			
		OBS	0094	0420	33695	2675			14675																			
		STD	0100	0422	3378	2682	0012485	0229	14678																			
		OBS	0100	0422	33782	2682			14678																			
		OBS	0108	0423	33831	2686			14680																			
		OBS	0110	0459	33964	2692			14697																			
		OBS	0118	0500	34109	2699			14718																			
		STD	0125	0501	3413	2701	0010728	0258	14720																			
		OBS	0125	0501	34132	2701			14720																			
		OBS	0129	0502	34167	2703			14721																			
		STD	0150	0585	3445	2716	0009379	0283	14762																			
		OBS	0150	0585	34448	2716			14762																			
		STD	0200	0562	3478	2744	0006726	0323	14765																			
		OBS	0200	0562	34775	2744			14765																			

TABLE IV.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DUST INDEX	MARSDEN SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.	CODE	' 1/10	' 1/10		10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8007	EV	47000N	048000W		149	78	11	06	161	1966		057	0146	01	00	2	2		X6	013		0071
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (mi)	OIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB											
						DT	SD	OS	S20	254	067	067	5	14									
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> 10 <sup>3</sup>		Σ Δ O DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	SCC					
		STD	0000	0572	3240	2556	0024375		0000	14705													
	161	OBS	0000	0572	32399	2556				14705													
		STD	0010	0562	3243	2559	0024071		0024	14703													
		OBS	0010	0562	32426	2559				14703													
	000	STD	0020	0562	3243	2559	0024081		0048	14705													
		OBS	0020	0562	32426	2559				14705													
		OBS	0025	0528	32611	2577				14694													
		STD	0030	0529	3270	2584	0021685		0071	14696													
		OBS	0030	0529	32698	2584				14696													
		OBS	0037	0294	32446	2588				14595													
		OBS	0039	0351	32986	2626				14627													
		OBS	0043	0118	32820	2631				14523													
		OBS	0044	0153	33028	2645				14542													
		STD	0050	-0010	3315	2664	0014045		0107	14471													
		OBS	0050	-0010	33152	2664				14471													
		OBS	0054	-0040	33334	2680				14460													
		STD	0075	0000	3350	2692	0011453		0139	14484													
		OBS	0075	0000	33497	2692				14484													
		STD	0100	0050	3381	2714	0009356		0165	14516													
		OBS	0100	0050	33806	2714				14516													
		OBS	0120	0093	33883	2717				14539													

REFERENCE		SHIP	LATITUDE	LONGITUDE	DUST INDEX	MARSDEN SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.	CODE	' 1/10	' 1/10		10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8007	EV	47000N	047440W		149	77	11	06	177	1966		058	0175	01	00	3	2		X6	013		0072
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (mi)	OIR.	SPEED OR FORCE	(mba)	DRY BULB	WET BULB											
						DT	SD	OS	S20	159	067	067	5	17									
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> 10 <sup>3</sup>		Σ Δ O DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SiO <sub>4</sub> -Si μg - dl/l	pH	SCC					
		STD	0000	0550	3257	2571	0022884		0000	14698													
	177	OBS	0000	0550	32565	2571				14698													
		STD	0010	0545	3256	2572	0022876		0023	14698													
		OBS	0010	0545	32560	2572				14698													
		STD	0020	0523	3256	2574	0022683		0046	14690													
	000	OBS	0020	0523	32555	2574				14690													
		OBS	0025	0527	32620	2578				14694													
		STD	0030	0524	3262	2578	0022253		0068	14693													
		OBS	0030	0524	32615	2578				14693													
		OBS	0034	0505	32705	2588				14687													
		OBS	0041	0241	32630	2607				14575													
		OBS	0043	0303	32955	2627				14607													
		OBS	0046	0099	32575	2612				14512													
		STD	0050	-0032	3281	2637	0016602		0107	14456													
		OBS	0050	-0032	32805	2637				14456													
		OBS	0052	-0050	33065	2659				14452													
		OBS	0054	-0013	33445	2688				14474													
		OBS	0059	-0044	33300	2678				14459													
		STD	0075	-0017	3350	2692	0011388		0142	14477													
		OBS	0075	-0017	33495	2692				14477													
		STD	0100	0040	3372	2707	0009955		0169	14510													
		OBS	0100	0040	33720	2707				14510													
		STD	0125	0103	3387	2716	0009189		0193	14545													
		OBS	0125	0103	33870	2716				14545													
		STD	0150	0198	3415	2731	0007782		0214	14595													
		OBS	0150	0198	34145	2731				14595													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPT INDEX	MARS DEN SQUARE		STATION TIME IGMTI			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
318007		EV	47000N	047310W		149	77	11	06	187	1966		059		0224	02	00	3	2		X6	0	3	0073			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	ND. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mbars)	DRY BULB	WET BULB															
						DT	SD	OS	S35	261	067	067	5				20										
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PD <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si D <sub>4</sub> -Si μg - at/l	pH										
187		STD	0000	0542	3246	2564	0023622		0000	14694																	
		OBS	0000	0542	32455	2564				14694																	
000		STD	0010	0513	3244	2565	0023468		0024	14683																	
		OBS	0010	0513	32435	2565				14683																	
		STD	0020	0535	3271	2585	0021651		0046	14697																	
		OBS	0020	0535	32710	2585				14697																	
		OBS	0025	0533	32725	2586				14698																	
		STD	0030	0518	3276	2590	0021137		0067	14693																	
		OBS	0030	0518	32755	2590				14693																	
		OBS	0033	0508	32805	2595				14690																	
		OBS	0035	0430	32725	2597				14656																	
		OBS	0040	0400	33045	2626				14649																	
		OBS	0042	0306	32970	2628				14608																	
		STD	0050	0056	3301	2649	0015491		0104	14499																	
		OBS	0050	0056	33005	2649				14499																	
		OBS	0058	0040	33520	2691				14500																	
		OBS	0062	0059	33760	2710				14513																	
		OBS	0065	0040	33750	2710				14505																	
		STD	0075	0075	3386	2716	0009128		0135	14524																	
		OBS	0075	0075	33855	2716				14524																	
		STD	0100	0132	3399	2723	0008502		0157	14555																	
		OBS	0100	0132	33985	2723				14555																	
		OBS	0110	0163	34105	2730				14572																	
		OBS	0112	0209	34205	2735				14594																	
		STD	0125	0224	3426	2738	0007144		0176	14604																	
		OBS	0125	0224	34255	2738				14604																	
		STD	0150	0273	3438	2744	0006622		0194	14631																	
		OBS	0150	0273	34380	2744				14631																	
		STD	0200	0293	3445	2747	0006342		0226	14648																	
		OBS	0200	0293	34445	2747				14648																	



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318007		EV	47000N	047150W		149	77	11	06	198	1966		060	0493	04	00	3	2		X6	013		0074
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB										
		DT	SD	OS	S35	261	067	067	5	20													
MESSENGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta O$ OTN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO <sub>2</sub> -N $\mu g - \text{at/l}$	NO <sub>3</sub> -N $\mu g - \text{at/l}$	SiO <sub>4</sub> -Si $\mu g - \text{at/l}$	pH	S C						
		STD	0000	0558	3283	2591	0021024	0000	14705														
198		OBS	0000	0558	32825	2591			14705														
		STD	0010	0548	3289	2597	0020472	0021	14703														
		OBS	0010	0548	32885	2597			14703														
		STD	0020	0542	3289	2598	0020416	0041	14703														
000		OBS	0020	0542	32885	2598			14703														
		OBS	0025	0547	32905	2599			14706														
		STD	0030	0529	3296	2605	0019757	0061	14700														
		OBS	0030	0529	32955	2605			14700														
		OBS	0037	0380	32945	2620			14639														
		OBS	0038	0411	33455	2657			14659														
		OBS	0049	0252	33605	2684			14594														
		STD	0050	0261	3381	2699	0010805	0092	14601														
		OBS	0050	0261	33805	2699			14601														
		OBS	0054	0284	34055	2717			14615														
		OBS	0062	0243	34010	2717			14598														
		OBS	0070	0254	34150	2727			14606														
		STD	0075	0227	3414	2728	0008051	0115	14595														
		OBS	0075	0227	34135	2728			14595														
		STD	0100	0322	3448	2747	0006310	0133	14645														
		OBS	0100	0322	34475	2747			14645														
		STD	0125	0367	3457	2750	0006040	0149	14669														
		OBS	0125	0367	34570	2750			14669														
		STD	0150	0410	3469	2755	0005632	0163	14693														
		OBS	0150	0410	34685	2755			14693														
		STD	0200	0423	3476	2759	0005293	0191	14708														
		OBS	0200	0423	34755	2759			14708														
		STD	0250	0434	3481	2762	0005051	0217	14721														
		STD	0300	0442	3484	2764	0004967	0242	14733														
		OBS	0300	0442	34840	2764			14733														
		STD	0400	0449	3485	2763	0005114	0292	14753														
		OBS	0400	0449	34845	2763			14753														
		OBS	0450	0450	34850	2763			14762														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	NODC NUMBER	MARSOEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					10°	1°	MO	DAY		HR./10	CRUISE NO.			STATION NUMBER	DIR	HGT		PER	SEA		TYPE
31	8007	EV	47000N	047000W	149	77	11	06	210	1966	061		1097	10	00	3	3		X2	013		0075
						WATER		WIND		BARO- METER (mb)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB											
						DT	SD	OS	S20	268	083	083	6	21								
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{ml}^{-1}$	TOTAL-P $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{ml}^{-1}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{ml}^{-1}$	pH	S NO					
		STD	0000	0626	3324	2615	0018745	0000	14738													
210		OBS	0000	0626	33235	2615			14738													
		STD	0010	0710	3346	2621	0018171	0018	14776													
		OBS	0010	0710	33455	2621			14776													
		STD	0020	0743	3371	2636	0016760	0036	14794													
001		OBS	0020	0743	33705	2636			14794													
		OBS	0025	0789	33835	2640			14814													
		STD	0030	0800	3393	2646	0015889	0052	14820													
		OBS	0030	0800	33930	2646			14820													
		STD	0050	0492	3397	2689	0011761	0080	14701													
		OBS	0050	0492	33970	2689			14701													
		OBS	0062	0576	34350	2709			14743													
		STD	0075	0517	3457	2734	0007572	0104	14724													
		OBS	0075	0517	4570	2734			14724													
		STD	0100	0472	477	2754	0005640	0121	14712													
		OBS	0100	0472	4765	2754			14712													
		STD	0125	0456	3478	2757	0005381	0134	14710													
		OBS	0125	0456	34780	2757			14710													
		STD	0150	0450	3481	2760	0005156	0148	14712													
		OBS	0150	0450	34805	2760			14712													
		STD	0200	0439	3485	2764	0004791	0172	14716													
		OBS	0200	0439	34845	2764			14716													
		STD	0250	0432	3485	2765	0004730	0196	14721													
		STD	0300	0425	3486	2767	0004668	0220	14727													
		OBS	0300	0425	34855	2767			14727													
		STD	0400	0414	3491	2772	0004260	0264	14739													
		OBS	0400	0414	34907	2772			14739													
		STD	0500	0401	3491	2773	0004214	0307	14750													
		OBS	0500	0401	34907	2773			14750													
		STD	0600	0389	3491	2775	0004175	0349	14762													
		OBS	0600	0389	34907	2775			14762													
		STD	0700	0384	3492	2776	0004099	0390	14776													
		OBS	0700	0384	34922	2776			14776													
		STD	0800	0378	3492	2777	0004114	0431	14791													
		OBS	0800	0378	34923	2777			14791													
		STD	0900	0376	3492	2777	0004186	0473	14806													
		OBS	0900	0376	34922	2777			14806													
		STD	1000	0372	3493	2778	0004146	0514	14822													
		OBS	1000	0372	34933	2778			14822													
		OBS	1050	0370	34935	2779			14829													

TABLE IV.—Continued

REFERENCE CRUISE CODE	SHIP NO.	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARS DEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S				DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		MOOC STATION NUMBER	
						10°	1°	MO	DAY		HR./10	CRUISE NO.	STATION NUMBER	DIR.			HGT PER	SEA	TYPE	AMT					
318007	EV		47000N	046450W	149	76	11	06	230	1966		062		1207	11	00	2	3		X2	0	3		0076	
						WATER		WIND		AIR TEMP. °C				NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	CUR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB		WET BULB		VIS. CODE										
						DT	SD	05	S20	268	083	083	6	24											
MESSENGER TIME HR 1/10	CAST NO.	CARO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>				Σ Δ ρ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S C					
230		STD	0000	0951	3396	2624	0017856				0000	14873													
		OBS	0000	0951	33960	2624						14873													
001		STD	0010	0885	3396	2635	0016867				0017	14850													
		OBS	0010	0885	33960	2635						14850													
		STD	0020	0835	3401	2647	0015778				0034	14833													
		OBS	0020	0835	34010	2647						14833													
		OBS	0025	0831	34010	2647						14832													
		STD	0030	0829	3401	2647	0015708				0049	14832													
		OBS	0030	0829	34010	2647						14832													
		OBS	0040	0829	34065	2652						14835													
		STD	0050	0764	3429	2679	0012742				0078	14814													
		OBS	0050	0764	34290	2679						14814													
		STD	0075	0553	3458	2730	0007950				0104	14739													
		OBS	0075	0553	34575	2730						14739													
		STD	0100	0471	3472	2751	0005966				0121	14711													
		OBS	0100	0471	34720	2751						14711													
		OBS	0110	0464	34720	2752						14710													
		STD	0125	0501	3484	2756	0005468				0135	14729													
		OBS	0125	0501	34835	2756						14729													
		OBS	0137	0510	34855	2757						14735													
		STD	0150	0473	3481	2757	0005407				0149	14721													
		OBS	0150	0473	34805	2757						14721													
	STD	0200	0439	3485	2765	0004723				0174	14716														
	OBS	0200	0439	34854	2765						14716														
	STD	0250	0425	3487	2768	0004505				0197	14718														
	STD	0300	0418	3489	2770	0004360				0220	14724														
	OBS	0300	0418	34886	2770						14724														
	STD	0400	0422	3492	2772	0004259				0263	14743														
	OBS	0400	0422	34919	2772						14743														
	STD	0500	0403	3491	2773	0004236				0305	14751														
	OBS	0500	0403	34907	2773						14751														
	STD	0600	0390	3491	2775	0004149				0347	14762														
	OBS	0600	0390	34912	2775						14762														
	STD	0700	0391	3493	2776	0004142				0389	14779														
	OBS	0700	0391	34927	2776						14779														
	STD	0800	0384	3493	2777	0004131				0430	14793														
	OBS	0800	0384	34930	2777						14793														
	STD	0900	0379	3493	2777	0004170				0471	14808														
	OBS	0900	0379	34929	2777						14808														
	STD	1000	0373	3493	2778	0004165				0513	14822														
	OBS	1000	0373	34932	2778						14822														
	STD	1100	0364	3493	2779	0004143				0555	14835														
	OBS	1100	0364	34932	2779						14835														
	OBS	1150	0361	34936	2780						14842														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER										
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT											
31	8007	EV	47000N	046310W		149	76	11	07	004	1966		063	0630	05	05	3	4		X2	0	3	0077										
		CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND SALTY=310°	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH	S DIN																
MESSENGR TIME HR 1/10	CARD NO.																																
		STD	0000	1027	3385	2603	0019884	0000	14899																								
004		OBS	0000	1027	33850	2603			14899																								
		STD	0010	1017	3385	2605	0019742	0020	14897																								
		OBS	0010	1017	33850	2605			14897																								
		STD	0020	1012	3388	2607	0019497	0039	14897																								
000		OBS	0020	1012	33875	2607			14897																								
		OBS	0025	1011	33875	2608			14898																								
		STD	0030	1010	3388	2608	0019485	0059	14898																								
		OBS	0030	1010	33875	2608			14898																								
		OBS	0040	1010	33875	2608			14900																								
		STD	0050	0865	3393	2635	0016902	0095	14848																								
		OBS	0050	0865	33925	2635			14848																								
		OBS	0070	0644	34580	2718			14774																								
		STD	0075	0680	3480	2731	0007889	0126	14792																								
		OBS	0075	0680	34795	2731			14792																								
		STD	0100	0558	3483	2749	0006173	0144	14748																								
		OBS	0100	0558	34825	2749			14748																								
		STD	0125	0498	3476	2750	0006032	0159	14727																								
		OBS	0125	0498	34755	2750			14727																								
		STD	0150	0460	3479	2758	0005377	0173	14716																								
		OBS	0150	0460	34790	2758			14716																								
		STD	0200	0449	3487	2765	0004750	0199	14720																								
		OBS	0200	0449	34865	2765			14720																								
		STD	0250	0433	3488	2768	0004516	0222	14722																								
		STD	0300	0421	3489	2770	0004348	0244	14725																								
		OBS	0300	0421	34892	2770			14725																								
		STD	0400	0410	3492	2773	0004127	0286	14738																								
		OBS	0400	0410	34919	2773			14738																								
		STD	0500	0388	3491	2775	0004019	0327	14745																								
		OBS	0500	0388	34914	2775			14745																								
		OBS	0550	0379	34916	2776			14749																								

TABLE IV.—Continued

REFERENCE CTRY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER						
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA		TYPE	AMT							
						10"	1"	MO	DAY	HR.1/10																		
318007		EV	47000N	046100W		149	76	11	07	018	1966		064	0302	03	08	1	4		X2	0	3		0078				
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS														
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO-METER (mb)	DRY BULB	WET BULB	VIS. CODE															
						OT	SD	04	510	271	111	111	6	21														
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C C									
		STD	0000	1013	3386	2606	0019619		0000		14894																	
018		OBS	0000	1013	33855	2606					14894																	
		OBS	0006	1013	33855	2606					14895																	
		STD	0010	0997	3386	2608	0019382		0020		14890																	
000		OBS	0010	0997	33855	2608					14890																	
		STD	0020	0995	3386	2609	0019370		0039		14891																	
		OBS	0020	0995	33855	2609					14891																	
		OBS	0025	0995	33855	2609					14891																	
		STD	0030	0991	3386	2609	0019327		0058		14891																	
		OBS	0030	0991	33855	2609					14891																	
		OBS	0040	0950	33855	2616					14877																	
		STD	0050	0808	3421	2666	0013993		0092		14830																	
		OBS	0050	0808	34205	2666					14830																	
		OBS	0070	0603	34415	2711					14756																	
		STD	0075	0594	3453	2721	0008814		0120		14754																	
		OBS	0075	0594	34525	2721					14754																	
		OBS	0077	0560	34470	2721					14740																	
		OBS	0084	0552	34555	2728					14739																	
		OBS	0086	0510	34530	2731					14722																	
		OBS	0091	0499	34545	2734					14719																	
		OBS	0094	0532	34705	2743					14735																	
		STD	0100	0499	3467	2744	0006650		0139		14722																	
		OBS	0100	0499	34670	2744					14722																	
		STD	0125	0529	3482	2752	0005879		0155		14740																	
		OBS	0125	0529	34823	2752					14740																	
		OBS	0132	0495	34790	2754					14727																	
		STD	0150	0499	3487	2759	0005235		0169		14733																	
		OBS	0150	0499	34867	2759					14733																	
		STD	0200	0477	3487	2762	0005045		0195		14752																	
		OBS	0200	0477	34867	2762					14732																	
		STD	0250	0445	3488	2766	0004648		0219		14727																	
		OBS	0280	0421	34887	2770					14722																	

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE • 1/10	LONGITUDE • 1/10	DRIFT INDIC	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOGC STATION NUMBER				
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT						
31	8007	EV	47180N	046100W		149	76	11	07	037	1966		065		0368	03	04	2	2		X2	0	3		0079			
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB															
						DT	SO	03	S14	268	100	100	5				15											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \rho$ DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>2</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	S CODE										
		STD	0000	0983	3394	2617	0018546		0000	14884																		
037		OBS	0000	0983	33935	2617				14884																		
		STD	0010	0982	3394	2617	0018550		0019	14885																		
		OBS	0010	0982	33935	2617				14885																		
		STD	0020	0976	3394	2618	0018475		0037	14885																		
000		OBS	0020	0976	33935	2618				14885																		
		OBS	0025	0968	33935	2619				14883																		
		STD	0030	0966	3394	2620	0018337		0055	14883																		
		OBS	0030	0966	33935	2620				14883																		
		OBS	0040	0964	33940	2621				14884																		
		STD	0050	0810	3434	2676	0013019		0067	14833																		
		OBS	0050	0810	34340	2676				14833																		
		STD	0075	0690	3474	2724	0008468		0114	14795																		
		OBS	0075	0690	34735	2724				14795																		
		STD	0100	0664	3478	2732	0007830		0134	14790																		
		OBS	0100	0664	34780	2732				14790																		
		OBS	0117	0644	34835	2739				14785																		
		STD	0125	0570	3472	2739	0007134		0153	14756																		
		OBS	0125	0570	34720	2739				14756																		
		STD	0150	0530	3476	2747	0006393		0170	14744																		
		OBS	0150	0530	34760	2747				14744																		
		STD	0200	0477	3483	2759	0005322		0199	14731																		
		OBS	0200	0477	34830	2759				14731																		
		STD	0250	0444	3488	2767	0004637		0224	14727																		
		STD	0300	0429	3490	2769	0004405		0246	14729																		
		OBS	0300	0429	34896	2769				14729																		
		OBS	0310	0428	34897	2770				14730																		



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S			DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CST CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
318007	EV	47400N	046100W	149	76	11	07	066		1966		066		1075	10	03	3	2		X4	03		0080	
						WATER		WIND		AIR TEMP. °C														
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	BARO- METER (mbars)		DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						DT	SD	05	S20	254		106	106	4	23									
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si D <sub>4</sub> -Si μg - at/l	pH	S C						
		STD	0000	0762	3377	2639	0016502		0000	14799														
	066	OBS	0000	0762	33770	2639				14799														
		STD	0010	0763	3377	2638	0016532		0017	14801														
		OBS	0010	0763	33770	2638				14801														
		STD	0020	0910	3417	2647	0015706		0033	14863														
	001	OBS	0020	0910	34170	2647				14863														
		OBS	0025	0900	34085	2642				14859														
		STD	0030	0833	3394	2641	0016286		0049	14833														
		OBS	0030	0833	33940	2641				14833														
		OBS	0038	0868	34165	2654				14850														
		STD	0050	0668	3400	2669	0013658		0079	14773														
		OBS	0050	0668	33995	2669				14773														
		OBS	0058	0544	34190	2700				14727														
		OBS	0064	0559	34575	2729				14739														
		STD	0075	0486	3466	2744	0006589		0104	14712														
		OBS	0075	0486	34655	2744				14712														
		STD	0100	0471	3474	2752	0005816		0119	14711														
		OBS	0100	0471	34740	2752				14711														
		OBS	0115	0437	34705	2753				14699														
		STD	0125	0435	3471	2754	0005718		0134	14700														
		OBS	0125	0435	34705	2754				14700														
		STD	0150	0428	3483	2764	0004748		0147	14703														
		OBS	0150	0428	34828	2764				14703														
		STD	0200	0412	3485	2767	0004488		0170	14705														
		OBS	0200	0412	34847	2767				14705														
		STD	0250	0406	3487	2770	0004302		0192	14711														
		STD	0300	0402	3488	2771	0004241		0213	14717														
		OBS	0300	0402	34879	2771				14717														
		STD	0400	0397	3489	2772	0004209		0256	14732														
		OBS	0400	0397	34889	2772				14732														
		STD	0500	0394	3491	2774	0004137		0297	14747														
		OBS	0500	0394	34907	2774				14747														
		STD	0600	0390	3492	2775	0004127		0339	14762														
		OBS	0600	0390	34915	2775				14762														
		STD	0700	0382	3492	2776	0004092		0380	14776														
		OBS	0700	0382	34920	2776				14776														
		STD	0800	0377	3493	2777	0004080		0421	14790														
		OBS	0800	0377	34926	2777				14790														
		STD	0900	0368	3493	2778	0004042		0461	14803														
		OBS	0900	0368	34929	2778				14803														
		OBS	0980	0363	34933	2779				14814														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO DAY HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8007	EV	48000N	046100W	149 86	11	07	084	1966		067	1152	11	03	3	c		X4	0 3		0081
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. SMT	DIR.	SPEED OR FORCE		DRY BULB	WET BULB									
						DT	SD	07	520		106	106					3	24			
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> °		Σ Δ σ OYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>3</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	SiO <sub>4</sub> -Si μg - ml/l	pH			
		STD	0000	0913	3413	2644		0016010		0000	14861										
	084	OBS	0000	0913	34130	2644					14861										
		STD	0010	0913	3413	2644		0016029		0016	14862										
		OBS	0010	0913	34130	2644					14862										
		STD	0020	0911	3413	2644		0016055		0032	14863										
	001	OBS	0020	0911	34125	2644					14863										
		OBS	0025	0900	34125	2645					14860										
		STD	0030	0871	3413	2650		0015471		0048	14850										
		OBS	0030	0871	34125	2650					14850										
		OBS	0036	0769	34005	2656					14810										
		OBS	0039	0813	34185	2664					14830										
		STD	0050	0699	3436	2693		0011378		0075	14790										
		OBS	0050	0699	34355	2693					14790										
		STD	0075	0469	3468	2747		0006253		0097	14705										
		OBS	0075	0469	34675	2747					14705										
		STD	0100	0436	3472	2755		0005591		0112	14690										
		OBS	0100	0436	34720	2755					14696										
		STD	0125	0429	3476	2758		0005280		0125	14698										
		OBS	0125	0429	34755	2758					14698										
		STD	0150	0424	3478	2761		0005066		0138	14700										
		OBS	0150	0424	34780	2761					14700										
		STD	0200	0428	3487	2767		0004515		0162	14711										
		OBS	0200	0428	34866	2767					14711										
		STD	0250	0414	3487	2769		0004409		0184	14714										
		STD	0300	0404	3487	2770		0004352		0206	14716										
		OBS	0300	0404	34867	2770					14718										
		STD	0400	0398	3488	2771		0004310		0250	14732										
		OBS	0400	0398	34877	2771					14732										
		STD	0500	0392	3489	2773		0004242		0292	14746										
		OBS	0500	0392	34890	2773					14746										
		STD	0600	0391	3490	2774		0004220		0335	14763										
		OBS	0600	0391	34904	2774					14763										
		STD	0700	0389	3491	2775		0004230		0377	14778										
		OBS	0700	0389	34912	2775					14778										
		STD	0800	0385	3492	2776		0004217		0419	14793										
		OBS	0800	0385	34920	2776					14793										
		STD	0900	0380	3493	2777		0004204		0461	14808										
		OBS	0900	0380	34926	2777					14808										
		STD	1000	0369	3493	2778		0004140		0503	14820										
		OBS	1000	0369	34929	2778					14820										
		OBS	1060	0359	34935	2780					14826										

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'WPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MD	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			SPECIAL OBSERVATIONS								
																COLOR CODE	TRANS. IM1	DIR.	SPEED OR FORCE		BARO- METER (mbx)	DRY BULB		WET BULB
31	8007	EV	48190N	046100W		149	86	11	07	108	1966	068	1152	11	01	3	2		X4	0	3	0082		
						WATER		WIND				AIR TEMP. °C												
						COLOR CODE	TRANS. IM1	DIR.	SPEED OR FORCE	BARO- METER (mbx)	DRY BULB		WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						DT	SD	07	S20	254	067	067	3	21										
MESSNGR TIME HR 1/10	CST ND.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	S CC							
		STD	0000	0668	3368	2644	0015938	0000	14761															
108		OBS	0000	0668	33680	2644			14761															
		STD	0010	0745	3419	2674	0013196	0015	14799															
		OBS	0010	0745	34185	2674			14799															
		STD	0020	0700	3411	2674	0013208	0028	14782															
001		OBS	0020	0700	34105	2674			14782															
		OBS	0025	0721	34195	2678			14792															
		STD	0030	0733	3428	2682	0012396	0041	14799															
		OBS	0030	0733	34275	2682			14799															
		STD	0050	0449	3428	2718	0008977	0062	14688															
		OBS	0050	0449	34280	2718			14688															
		OBS	0052	0423	34330	2725			14678															
		STD	0075	0424	3463	2748	0006153	0081	14686															
		OBS	0075	0424	34625	2748			14686															
		STD	0100	0457	3481	2759	0005177	0095	14706															
		OBS	0100	0457	34805	2759			14706															
		STD	0125	0462	3486	2763	0004884	0108	14713															
		OBS	0125	0462	34855	2763			14713															
		STD	0150	0459	3486	2763	0004879	0120	14716															
		OBS	0150	0459	34855	2763			14716															
		STD	0200	0444	3486	2765	0004770	0144	14718															
		OBS	0200	0444	34855	2765			14718															
		STD	0250	0435	3489	2768	0004463	0167	14723															
		STD	0300	0427	3491	2771	0004271	0189	14728															
		OBS	0300	0427	34911	2771			14728															
		STD	0400	0418	3491	2771	0004319	0232	14741															
		OBS	0400	0418	34905	2771			14741															
		STD	0500	0395	3491	2774	0004148	0274	14748															
		OBS	0500	0395	34907	2774			14748															
		STD	0600	0387	3491	2775	0004123	0315	14761															
		OBS	0600	0387	34911	2775			14761															
		STD	0700	0376	3491	2776	0004083	0357	14773															
		OBS	0700	0376	34912	2776			14773															
		STD	0800	0376	3493	2778	0004024	0397	14790															
		OBS	0800	0376	34932	2778			14790															
		STD	0900	0366	3493	2779	0004018	0437	14802															
		OBS	0900	0366	34929	2779			14802															
		STD	1000	0363	3493	2779	0004069	0478	14818															
		OBS	1000	0363	34929	2779			14818															
		STD	1100	0360	3493	2779	0004117	0519	14833															
		OBS	1100	0360	34929	2779			14833															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METERS	MARSSEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10°	1'	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER				DIR.	NGT	PER	SEA		TYPE	AMT	
						WATER COLOR CODE	TRANS. (m)	DIR.	WIND SPEED OF FORCE	BARO- METER (mbs)	AIR TEMP. °C DRY BULB		WET BULB	VIS. CODE			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS						
31	8007	EV	48340N	046100W	149	86	11	07	134	1966		069		2012	15	06	3	3		X4	0	3	0083	
					OT	SD	04	S14	247	083	083	1	24											
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210?		$\Sigma \Delta \sigma_t$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>3</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	Si O <sub>4</sub> -Si µg - at/l	pH	S CC						
		STD	0000	0719	3308	2590	0021109		0000	14773														
134		OBS	0000	0719	33075	2590				14773														
		STD	0010	0719	3308	2590	0021123		0021	14774														
		OBS	0010	0719	33075	2590				14774														
		STD	0020	0719	3308	2590	0021137		0042	14776														
002		OBS	0020	0719	33075	2590				14776														
		OBS	0025	0719	33075	2590				14777														
		STD	0030	0725	3404	2665	0014076		0060	14793														
		OBS	0030	0725	34035	2665				14793														
		STD	0050	0595	3430	2702	0010511		0084	14748														
		OBS	0050	0595	34295	2702				14748														
		STD	0075	0478	3469	2748	0006239		0105	14709														
		OBS	0075	0478	34690	2748				14709														
		STD	0100	0462	3478	2756	0005456		0120	14708														
		OBS	0100	0462	34775	2756				14708														
		STD	0125	0460	3484	2761	0005012		0133	14712														
		OBS	0125	0460	34835	2761				14712														
		STD	0150	0451	3484	2762	0004942		0146	14712														
		OBS	0150	0451	34835	2762				14712														
		STD	0200	0438	3486	2765	0004705		0170	14715														
		OBS	0200	0438	34855	2765				14715														
		STD	0250	0431	3488	2768	0004495		0193	14721														
		STD	0300	0424	3490	2770	0004328		0215	14727														
		OBS	0300	0424	34899	2770				14727														
		STD	0400	0414	3491	2772	0004267		0258	14739														
		OBS	0400	0414	34906	2772				14739														
		STD	0500	0402	3491	2773	0004225		0300	14751														
		OBS	0500	0402	34907	2773				14751														
		STD	0600	0389	3491	2774	0004190		0342	14762														
		OBS	0600	0389	34905	2774				14762														
		STD	0700	0382	3491	2775	0004188		0384	14775														
		OBS	0700	0382	34907	2775				14775														
		STD	0800	0377	3491	2776	0004206		0426	14790														
		OBS	0800	0377	34909	2776				14790														
		STD	0900	0371	3492	2777	0004165		0468	14804														
		OBS	0900	0371	34917	2777				14804														
		STD	1000	0367	3492	2778	0004190		0510	14819														
		OBS	1000	0367	34919	2778				14819														
		STD	1100	0363	3492	2778	0004212		0552	14834														
		OBS	1100	0363	34921	2778				14834														
		STD	1200	0360	3493	2779	0004215		0594	14850														
		OBS	1200	0360	34927	2779				14850														
		STD	1300	0356	3493	2780	0004226		0636	14865														
		OBS	1300	0356	34930	2780				14865														
		STD	1400	0355	3494	2781	0004192		0678	14882														
		OBS	1400	0355	34944	2781				14882														
		STD	1500	0351	3495	2782	0004200		0720	14897														
		OBS	1500	0351	34947	2782				14897														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCHES	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODE STATION NUMBER		
CTRY CODE	ID. NO.					10'	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT	
31	8007	EV	47420N	045240W		149	75	11	07	195	1966		070	0284	03	07	3	2		X2	0	3	0084	
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
						DT	SD	10	522		193	111					111	7	13					
MESSNGR TIME HR 1/10		CAS T NO.	CARD TYPE	DEPTH (m)		T °C		S ‰		SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	Si O <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CLO		
			STD	0000		0994		3390		2612		0019017	0000	14888										
	195		OBS	0000		0994		33895		2612				14888										
			STD	0010		0964		3390		2617		0018561	0019	14878										
			OBS	0010		0964		33895		2617				14878										
			STD	0020		0931		3402		2632		0017178	0037	14869										
	000		OBS	0020		0931		34015		2632				14869										
			STD	0030		0895		3413		2646		0015831	0053	14859										
			OBS	0030		0895		34125		2646				14859										
			STD	0050		0787		3456		2696		0011094	0080	14827										
			OBS	0050		0787		34555		2696				14827										
			STD	0075		0725		3487		2730		0007971	0104	14811										
			OBS	0075		0725		34865		2730				14811										
			STD	0100		0683		3487		2736		0007447	0123	14798										
			OBS	0100		0683		34865		2736				14798										
			STD	0125		0632		3483		2739		0007120	0141	14782										
			OBS	0125		0632		34825		2739				14782										
			STD	0150		0560		3478		2745		0006599	0159	14756										
			OBS	0150		0560		34780		2745				14756										
			OBS	0174		0559		34865		2752				14761										
			OBS	0186		0493		34740		2750				14734										
			STD	0200		0487		3483		2758		0005435	0189	14735										
			OBS	0200		0487		34830		2758				14735										
			STD	0250		0448		3487		2765		0004770	0214	14728										
			OBS	0252		0446		34870		2765				14728										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARS DEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10'	1'	MO	DAY		HR.	1/10			CRUISE NO.	STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT		
31	8007	EV	46490N	044395W		149	64	11	08 014	1966		071	0137	01	13	3	3		X2	0	3		0085			
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB														
						DT	SD	09	530		125	128					122	7	10							
MESSNGR TIME HR 1/10	CAS T NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	Si O <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S CLO								
		STD	0000	0979	3406	2627	0017594		0000	14884																
	014	OBS	0000	0979	34055	2627				14884																
		STD	0010	0978	3406	2627	0017598		0018	14885																
		OBS	0010	0978	34055	2627				14885																
		STD	0020	0974	3406	2628	0017555		0035	14886																
	000	OBS	0020	0974	34055	2628				14886																
		STD	0030	0946	3408	2634	0016949		0052	14877																
		OBS	0030	0946	34080	2634				14877																
		STD	0050	0918	3430	2656	0014925		0084	14873																
		OBS	0050	0918	34300	2656				14873																
		OBS	0054	0915	34300	2657				14872																
		STD	0075	0570	3439	2713	0009534		0115	14743																
		OBS	0075	0570	34390	2713				14743																
		OBS	0079	0479	34555	2737				14709																
		STD	0100	0469	3456	2738	0007180		0136	14708																
		OBS	0100	0469	34555	2738				14708																
		OBS	0122	0464	34560	2739				14709																

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	OBS. INSTR.	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
						149	53	11	08	100													1966	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB																	
		DT	SD	12	S45	075	172	161	6					36										
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C							
		STD	0000	1322	3391	2552	0024713	0000	15002															
100		OBS	0000	1322	33905	2552			15002															
		STD	0010	1319	3391	2553	0024681	0025	15003															
		OBS	0010	1319	33905	2553			15003															
		STD	0020	1214	3376	2562	0023617	0049	14967															
002		OBS	0020	1214	33760	2562			14967															
		STD	0030	1182	3379	2570	0023080	0072	14958															
		OBS	0030	1182	33785	2570			14958															
		STD	0050	0918	3444	2667	0013925	0109	14875															
		OBS	0050	0918	34435	2667			14875															
		OBS	0056	0895	34625	2685			14870															
		OBS	0065	0921	34815	2696			14883															
		STD	0075	0870	3476	2700	0010833	0140	14865															
		OBS	0075	0870	34760	2700			14865															
		OBS	0080	0858	34825	2707			14862															
		STD	0100	0917	3504	2714	0009570	0166	14890															
		OBS	0100	0917	35035	2714			14890															
		STD	0125	0819	3492	2720	0008983	0189	14856															
		OBS	0125	0819	34920	2720			14856															
		STD	0150	0785	3498	2730	0008125	0210	14848															
		OBS	0150	0785	34975	2730			14848															
		STD	0200	0603	3479	2740	0007144	0249	14782															
		OBS	0200	0603	34787	2740			14782															
		OBS	0242	0528	34769	2748			14758															
		STD	0250	0548	3484	2751	0006137	0282	14769															
		OBS	0255	0557	34872	2753			14774															
		STD	0300	0488	3489	2762	0005107	0310	14753															
		OBS	0300	0488	34891	2762			14753															
		OBS	0341	0453	34876	2765			14745															
		OBS	0361	0470	34902	2765			14756															
		OBS	0370	0439	34887	2768			14744															
		STD	0400	0469	3494	2768	0004673	0359	14762															
		OBS	0400	0469	34935	2768			14762															
		OBS	0420	0443	34907	2769			14755															
		OBS	0430	0462	34937	2769			14764															
		STD	0500	0455	3496	2772	0004412	0404	14773															
		OBS	0500	0455	34963	2772			14773															
		OBS	0550	0403	34897	2772			14759															
		STD	0600	0403	3491	2773	0004347	0448	14768															
		OBS	0600	0403	34905	2773			14768															
		OBS	0628	0439	34972	2774			14788															
		OBS	0675	0407	34927	2774			14782															
		STD	0700	0427	3497	2776	0004211	0491	14795															
		OBS	0700	0427	34974	2776			14795															
		STD	0800	0407	3495	2776	0004259	0533	14803															
		OBS	0800	0407	34949	2776			14803															
		STD	0900	0378	3493	2777	0004188	0575	14807															
		OBS	0900	0378	34925	2777			14807															
		STD	1000	0392	3496	2778	0004208	0617	14830															
		OBS	1000	0392	34957	2778			14830															
		STD	1100	0369	3493	2778	0004218	0659	14837															
		OBS	1100	0369	34930	2778			14837															
		STD	1200	0374	3495	2779	0004239	0702	14856															
		OBS	1200	0374	34947	2779			14856															
		STD	1300	0371	3495	2780	0004258	0744	14872															
		OBS	1300	0371	34951	2780			14872															
		STD	1400	0367	3495	2780	0004292	0767	14887															
		OBS	1400	0367	34951	2780			14887															
		STD	1500	0365	3496	2781	0004306	0830	14903															
		OBS	1500	0365	34957	2781			14903															



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S				DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.						MO	DAY	HR./10		CRUISE NO.	STATION NUMBER		DIR.			HGT	PER	SEA	TYPE		AMT			
												10"	1"										073		4755
							149	42	11	08	217	1966		073	4755	15	22	4	2		X2	0	3		0087
							WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTH	SPECIAL OBSERVATIONS											
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB		WET BULB	VIS. CODE										
							DT	SD	21	510	115	183		178	7	34									
MESSAGE TIME OF HR 1/10	CAS NO.	CAR TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 <sup>3</sup>		Σ Δ D OYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S CC						
		STD	0000	1781	3572	2588	0021261		0000		15168														
	217	OBS	0000	1781	35715	2588					15168														
		STD	0010	1782	3571	2588	0021354		0021		15170														
		OBS	0010	1782	35710	2588					15170														
	002	STD	0020	1789	3575	2589	0021298		0043		15174														
		OBS	0020	1789	35745	2589					15174														
		STD	0030	1796	3577	2589	0021351		0064		15178														
		OBS	0030	1796	35765	2589					15178														
		STD	0050	1800	3586	2594	0020860		0106		15183														
		OBS	0050	1800	35855	2594					15183														
		OBS	0060	1813	35935	2597					15190														
		STD	0075	1780	3609	2617	0018805		0156		15184														
		OBS	0075	1780	36085	2617					15184														
		STD	0100	1741	3635	2646	0016093		0199		15180														
		OBS	0100	1741	36345	2646					15180														
		STD	0125	1729	3638	2652	0015681		0239		15181														
		OBS	0125	1729	36375	2652					15181														
		STD	0150	1679	3628	2656	0015343		0278		15169														
		OBS	0150	1679	36275	2656					15169														
		OBS	0177	1670	36285	2659					15171														
		STD	0200	1592	3617	2668	0014339		0352		15150														
		OBS	0200	1592	36167	2668					15150														
		STD	0250	1503	3598	2674	0013921		0423		15128														
		STD	0300	1448	3590	2680	0013467		0491		15118														
		OBS	0300	1448	35903	2680					15118														
		OBS	0355	1428	35953	2688					15121														
		STD	0400	1353	3577	2690	0012785		0622		15101														
		OBS	0400	1353	35767	2690					15101														
		OBS	0440	1252	35600	2697					15072														
		OBS	0452	1289	35692	2697					15088														
		STD	0500	1214	3556	2701	0011826		0746		15069														
		OBS	0500	1214	35559	2701					15069														
		OBS	0550	1085	35381	2712					15030														
		STD	0600	1042	3536	2718	0010350		0856		15022														
		OBS	0600	1042	35359	2718					15022														
		OBS	0650	0889	35114	2724					14971														
		OBS	0680	0889	35154	2728					14977														
		STD	0700	0852	3512	2731	0009109		0954		14966														
		OBS	0700	0852	35117	2731					14966														
		STD	0800	0690	3504	2749	0007324		1036		14919														
		OBS	0800	0690	35043	2749					14919														
		OBS	0865	0605	35032	2759					14896														
		STD	0900	0610	3508	2762	0006060		1103		14904														
		OBS	0900	0610	35078	2762					14904														
		STD	1000	0524	3502	2768	0005459		1160		14885														
		OBS	1000	0524	35016	2768					14885														
		STD	1100	0489	3502	2772	0005106		1213		14888														
		OBS	1100	0489	35016	2772					14888														
		STD	1200	0472	3499	2772	0005217		1265		14897														
		OBS	1200	0472	34985	2772					14897														
		STD	1300	0441	3499	2775	0004894		1315		14901														
		OBS	1300	0441	34987	2775					14901														
		STD	1400	0424	3498	2776	0004855		1364		14911														
		OBS	1400	0424	34975	2776					14911														
		STD	1500	0415	3497	2777	0004837		1413		14924														
		OBS	1500	0415	34974	2777					14924														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARS SQUARE	STATION TIME (GMT)					YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		DEPTH CODES	NDOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	8007	EV	44090N	042250W	149	42	11	09	024	1966		074	4755	15	22	3	2		X2	0	3			0088	
						WATER		WIND		BARD- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
						DT	SD	22	S20		125	194				183	6	29							
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-30°		Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PD <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>2</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	Si O <sub>4</sub> -Si μg - ml/l	pH	S C						
		STD	0000	1866	3585	2577		0022333		0000	15194														
024		OBS	0000	1866	35845	2577					15194														
		STD	0010	1867	3585	2577		0022355		0022	15196														
		OBS	0010	1867	35850	2577					15196														
		STD	0020	1867	3585	2577		0022390		0045	15198														
002		OBS	0020	1867	35850	2577					15198														
		STD	0030	1867	3585	2577		0022425		0067	15199														
		OBS	0030	1867	35850	2577					15199														
		STD	0050	1864	3585	2578		0022423		0112	15202														
		OBS	0050	1864	35850	2578					15202														
		OBS	0065	1864	35850	2578					15204														
		STD	0075	1862	3615	2601		0020323		0165	15209														
		OBS	0075	1862	36145	2601					15209														
		STD	0100	1808	3646	2638		0016869		0212	15201														
		OBS	0100	1808	36455	2638					15201														
		OBS	0106	1790	36565	2651					15198														
		OBS	0110	1801	36500	2644					15201														
		STD	0125	1795	3652	2646		0016213		0253	15202														
		OBS	0125	1795	36515	2646					15202														
		STD	0150	1775	3652	2651		0015826		0293	15200														
		OBS	0150	1775	36515	2651					15200														
		STD	0200	1725	3643	2656		0015479		0372	15193														
		OBS	0200	1725	36425	2656					15193														
		STD	0250	1693	3637	2660		0015306		0449	15191														
		STD	0300	1641	3629	2666		0014863		0524	15183														
		OBS	0300	1641	36290	2666					15183														
		STD	0400	1479	3603	2683		0013496		0666	15146														
		OBS	0400	1479	36030	2683					15146														
		OBS	0470	1419	35915	2687					15136														
		STD	0500	1356	3582	2693		0012739		0797	15120														
		OBS	0500	1356	35820	2693					15120														
		OBS	0570	1316	35755	2696					15117														
		STD	0600	1259	3566	2700		0012259		0922	15102														
		OBS	0600	1259	35655	2700					15102														
		STD	0700	1021	3531	2717		0010593		1036	15030														
		OBS	0700	1021	35305	2717					15030														
		STD	0800	0820	3512	2735		0008793		1133	14970														
		OBS	0800	0820	35115	2735					14970														
		STD	0900	0600	3491	2750		0007191		1213	14898														
		OBS	0900	0600	34905	2750					14898														
		STD	1000	0528	3495	2762		0006035		1279	14886														
		OBS	1000	0528	34945	2762					14886														
		STD	1100	0505	3499	2768		0005548		1337	14894														
		OBS	1100	0505	34985	2768					14894														
		OBS	1150	0479	34985	2771					14892														
		STD	1200	0479	3499	2771		0005311		1391	14900														
		OBS	1200	0479	34985	2771					14900														
		STD	1300	0456	3499	2774		0005109		1443	14907														
		OBS	1300	0456	34985	2774					14907														
		STD	1400	0448	3500	2775		0005030		1494	14921														
		OBS	1400	0448	34995	2775					14921														
		STD	1500	0430	3499	2776		0004959		1544	14930														
		OBS	1500	0430	34985	2776					14930														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT		
31	8007	EV	43170N	041500W		149	31	11	09	090	1966	075		4755	15	1	2	2		X2	0	3	0089	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB												
						DT	SO	21	505	135	194	183	7	26										
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANDALYT-810°		Σ Δ D DYN. M. x 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SIO <sub>4</sub> -Si μg - dl/l	pH					
		STD	0000	1765	3522	2554		0024524		0000		15157												
	090	OBS	0000	1765	35215	2554						15157												
		STD	0010	1767	3522	2554		0024567		0025		15160												
		OBS	0010	1767	35220	2554						15160												
	002	STD	0020	1767	3523	2554		0024564		0049		15161												
		OBS	0020	1767	35225	2554						15161												
		STD	0030	1768	3523	2554		0024620		0074		15163												
		OBS	0030	1768	35225	2554						15163												
		STD	0050	1822	3601	2600		0020292		0119		15191												
		OBS	0050	1822	36005	2600						15191												
		OBS	0061	1739	35880	2611						15168												
		OBS	0068	1768	36055	2618						15179												
		STD	0075	1725	3606	2628		0017744		0166		15168												
		OBS	0075	1725	36055	2628						15168												
		STD	0100	1720	3625	2644		0016297		0209		15173												
		OBS	0100	1720	36250	2644						15173												
		STD	0125	1642	3619	2658		0015043		0248		15153												
		OBS	0125	1642	36190	2658						15153												
		STD	0150	1572	3606	2664		0014520		0285		15134												
		OBS	0150	1572	36060	2664						15134												
		STD	0200	1439	3587	2679		0013224		0354		15098												
		OBS	0200	1439	35870	2679						15098												
		STD	0250	1381	3584	2689		0012398		0418		15087												
		STD	0300	1336	3581	2696		0011888		0479		15080												
		OBS	0300	1336	35805	2696						15080												
		STD	0400	1284	3575	2702		0011568		0596		15078												
		OBS	0400	1284	35745	2702						15078												
		STD	0500	1107	3541	2710		0010952		0709		15029												
		OBS	0500	1107	35405	2710						15029												
		OBS	0550	1040	35345	2717						15013												
		STD	0600	0900	3513	2724		0009639		0812		14967												
		OBS	0600	0900	35125	2724						14967												
		STD	0700	0732	3507	2745		0007590		0898		14919												
		OBS	0700	0732	35070	2745						14919												
		STD	0800	0598	3503	2760		0006108		0966		14882												
		OBS	0800	0598	35030	2760						14882												
		STD	0900	0548	3502	2765		0005630		1025		14879												
		OBS	0900	0548	35020	2765						14879												
		STD	1000	0491	3500	2771		0005138		1079		14872												
		OBS	1000	0491	35000	2771						14872												
		STD	1100	0460	3501	2775		0004769		1128		14876												
		OBS	1100	0460	35010	2775						14876												
		STD	1200	0456	3501	2775		0004858		1177		14891												
		OBS	1200	0456	35005	2775						14891												
		STD	1300	0426	3498	2776		0004749		1225		14895												
		OBS	1300	0426	34980	2776						14895												
		STD	1400	0411	3498	2778		0004684		1272		14905												
		OBS	1400	0411	34975	2778						14905												
		STD	1500	0400	3497	2778		0004667		1319		14917												
		OBS	1500	0400	34970	2778						14917												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8007	EV	43260N	042300W		149	32	11	09	124	1966		076	4755	15	12	2	2		X2	013		0090
					WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
					COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB												
					DT	SD	32	S05		139	194	178	7	29									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	Σ C					
124		STD	0000	1759	3544	2573	0022748		0000	15158													
		OBS	0000	1759	35440	2573				15158													
002		STD	0010	1760	3544	2573	0022805		0023	15160													
		OBS	0010	1760	35440	2573				15160													
		STD	0020	1801	3567	2580	0022125		0045	15177													
		OBS	0020	1801	35670	2580				15177													
		STD	0030	1766	3556	2580	0022175		0067	15167													
		OBS	0030	1766	35555	2580				15167													
		OBS	0040	1641	35425	2600				15129													
		STD	0050	1720	3582	2611	0019290		0109	15159													
		OBS	0050	1720	35815	2611				15159													
		OBS	0060	1668	35670	2612				15144													
		OBS	0067	1772	36245	2631				15183													
		STD	0075	1722	3606	2629	0017675		0155	15167													
		OBS	0075	1722	36055	2629				15167													
		STD	0100	1625	3608	2653	0015419		0196	15142													
		OBS	0100	1625	36075	2653				15142													
		STD	0125	1561	3604	2665	0014347		0234	15126													
		OBS	0125	1561	36040	2665				15126													
		STD	0150	1508	3598	2673	0013722		0269	15113													
		OBS	0150	1508	35980	2673				15113													
		STD	0200	1433	3590	2683	0012918		0335	15096													
		OBS	0200	1433	35895	2683				15096													
		STD	0250	1363	3579	2689	0012399		0399	15080													
		STD	0300	1299	3569	2695	0011994		0460	15066													
		OBS	0300	1299	35690	2695				15066													
		STD	0400	1188	3553	2704	0011292		0576	15043													
		OBS	0400	1188	35530	2704				15043													
		OBS	0430	1148	35475	2707				15033													
		OBS	0440	1169	35555	2710				15043													
		STD	0500	1067	3538	2715	0010452		0685	15015													
		OBS	0500	1067	35375	2715				15015													
		STD	0600	0920	3520	2726	0009455		0784	14976													
		OBS	0600	0920	35195	2726				14976													
		STD	0700	0695	3497	2742	0007779		0870	14903													
		OBS	0700	0695	34970	2742				14903													
		OBS	0760	0606	34955	2753				14878													
		STD	0800	0599	3499	2756	0006453		0942	14882													
		OBS	0800	0599	34985	2756				14882													
		STD	0900	0541	3501	2766	0005609		1002	14876													
		OBS	0900	0541	35010	2766				14876													
		STD	1000	0496	3499	2769	0005314		1057	14874													
		OBS	1000	0496	34985	2769				14874													
		STD	1100	0459	3498	2772	0005013		1108	14875													
		OBS	1100	0459	34975	2772				14875													
		STD	1200	0440	3498	2774	0004869		1158	14884													
		OBS	1200	0440	34975	2774				14884													
		STD	1300	0419	3497	2776	0004731		1206	14892													
		OBS	1300	0419	34970	2776				14892													
		STD	1400	0399	3497	2778	0004564		1252	14900													
		OBS	1400	0399	34970	2778				14900													
		STD	1500	0389	3496	2778	0004632		1298	14913													
		OBS	1500	0389	34955	2778				14913													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DIRT INDIC	MARSON SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1'	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
318007	EV		43220N	043100W		149	33	11	09	151	1966		077	4755	15	34	3	2		X2	0	3	0091
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB		WET BULB																
OT	S0	34	S15	132	178	161	7	27															
MESSAGE TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SIO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S CODE					
		STO	0000	1859	3585	2579	0022128		0000	15192													
151		08S	0000	1859	35850	2579				15192													
		STD	0010	1859	3585	2579	0022163		0022	15194													
		08S	0010	1859	35850	2579				15194													
		STD	0020	1859	3585	2579	0022198		0044	15195													
002		08S	0020	1859	35850	2579				15195													
		STD	0030	1859	3585	2579	0022233		0067	15197													
		08S	0030	1859	35850	2579				15197													
		08S	0045	1859	35850	2579				15199													
		STD	0050	1822	3587	2590	0021272		0110	15190													
		08S	0050	1822	35870	2590				15190													
		STD	0075	1792	3581	2593	0021083		0163	15185													
		08S	0075	1792	35810	2593				15185													
		STD	0100	1845	3633	2619	0018660		0213	15210													
		08S	0100	1845	36330	2619				15210													
		STD	0125	1761	3638	2644	0016427		0457	15191													
		08S	0125	1761	36375	2644				15191													
		STD	0150	1735	3643	2654	0015543		0496	15188													
		08S	0150	1735	36425	2654				15188													
		STD	0200	1669	3634	2663	0014809		0372	15175													
		08S	0200	1669	36340	2663				15175													
		STD	0250	1547	3611	2674	0013925		0444	15143													
		STD	0300	1457	3596	2682	0013277		0512	15121													
		08S	0300	1457	35955	2682				15121													
		STD	0400	1372	3589	2695	0012277		0640	15109													
		08S	0400	1372	35890	2695				15109													
		08S	0470	1291	35755	2701				15092													
		08S	0480	1307	35800	2702				15100													
		STD	0500	1300	3580	2703	0011790		0760	15101													
		08S	0500	1300	35795	2703				15101													
		08S	0520	1283	35780	2705				15098													
		STD	0600	1041	3536	2718	0010362		0871	15022													
		08S	0600	1041	35355	2718				15022													
		STD	0700	0860	3516	2732	0008959		0968	14969													
		08S	0700	0860	35155	2732				14969													
		STD	0800	0720	3509	2748	0007462		1050	14931													
		08S	0800	0720	35085	2748				14931													
		STD	0900	0580	3509	2767	0005552		1115	14892													
		08S	0900	0580	35090	2767				14892													
		STD	1000	0524	3512	2776	0004731		1166	14887													
		08S	1000	0524	35115	2776				14887													
		STD	1100	0492	3514	2781	0004272		1211	14891													
		08S	1100	0492	35135	2781				14891													
		STD	1200	0471	3513	2783	0004139		1253	14899													
		08S	1200	0471	35130	2783				14899													
		STD	1300	0448	3512	2785	0004049		1294	14906													
		08S	1300	0448	35115	2785				14906													
		STD	1400	0419	3510	2786	0003910		1334	14910													
		08S	1400	0419	35095	2786				14910													
		STD	1500	0407	3510	2788	0003846		1373	14922													
		08S	1500	0407	35095	2788				14922													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH IN METERS	MARSSEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	WAL DEPTH OF S'AMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT		
318007		EV	43350N	043380W		149	33	11	09	186	1966		078		4755	15	34	6	4		X2	0	3		0092
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL CODE	ND. DBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	METER	DRY BULB	WET BULB													
						DT	SO	34	525	149	161	144	7											36	
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{dl/l}$	TOTAL-P $\mu\text{g} - \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{dl/l}$	SIO <sub>4</sub> -Si $\mu\text{g} - \text{dl/l}$	pH	S C C							
		STD	0000	1892	3596	2579	0022127		0000	15203															
	186	OBS	0000	1892	35960	2579				15203															
		STD	0010	1893	3596	2579	0022187		0022	15205															
		OBS	0010	1893	35960	2579				15205															
		STD	0020	1894	3598	2580	0022138		0044	15207															
	002	OBS	0020	1894	35975	2580				15207															
		STD	0030	1894	3601	2583	0021919		0066	15209															
		OBS	0030	1894	36010	2583				15209															
		STD	0050	1873	3603	2589	0021371		0110	15206															
		OBS	0050	1873	36025	2589				15206															
		STD	0075	1869	3605	2592	0021217		0163	15209															
		OBS	0075	1869	36045	2592				15209															
		STD	0100	1826	3615	2611	0019509		0214	15203															
		OBS	0100	1826	36150	2611				15203															
		OBS	0105	1805	36410	2636				15200															
		OBS	0115	1821	36480	2637				15208															
		STD	0125	1801	3649	2642	0016572		0259	15203															
		OBS	0125	1801	36485	2642				15203															
		STD	0150	1779	3650	2649	0016065		0300	15201															
		OBS	0150	1779	36495	2649				15201															
		STD	0200	1703	3641	2660	0015116		0378	15186															
		OBS	0200	1703	36405	2660				15186															
		STD	0250	1660	3635	2666	0014696		0452	15181															
		OBS	0260	1640	36315	2668				15176															
		STD	0300	1523	3606	2675	0013958		0524	15143															
		OBS	0300	1523	36055	2675				15143															
		OBS	0340	1421	35865	2683				15115															
		STD	0400	1383	3592	2695	0012320		0655	15113															
		OBS	0400	1383	35915	2695				15113															
		OBS	0465	1289	35705	2698				15090															
		OBS	0476	1308	35785	2700				15099															
		STD	0500	1156	3538	2698	0012073		0777	15046															
		OBS	0500	1156	35375	2698				15046															
		OBS	0560	0990	35220	2716				14995															
		OBS	0580	1006	35275	2718				15005															
		STD	0600	0907	3510	2720	0009973		0887	14969															
		OBS	0600	0907	35095	2720				14969															
		OBS	0620	0841	35055	2727				14947															
		OBS	0677	0823	35110	2735				14951															
		OBS	0690	0707	34930	2737				14906															
		STD	0700	0718	3498	2739	0008080		0978	14912															
		OBS	0700	0718	34975	2739				14912															
		OBS	0765	0746	35250	2757				14938															
		OBS	0785	0689	35150	2757				14917															
		STD	0800	0702	3516	2756	0006679		1051	14925															
		OBS	0800	0702	35155	2756				14925															
		STD	0900	0545	3502	2766	0005590		1113	14877															
		OBS	0900	0545	35020	2766				14877															
		STD	1000	0494	3499	2769	0005288		1167	14873															
		OBS	1000	0494	34985	2769				14873															
		STD	1100	0479	3502	2773	0004981		1219	14884															
		OBS	1100	0479	35015	2773				14884															
		STD	1200	0456	3500	2774	0004932		1268	14891															
		OBS	1200	0456	34995	2774				14891															
		STD	1300	0439	3499	2776	0004846		1317	14900															
		OBS	1300	0439	34990	2776				14900															
		STD	1400	0420	3499	2777	0004729		1365	14909															
		OBS	1400	0420	34985	2777				14909															
		STD	1500	0401	3498	2779	0004644		1412	14918															
		OBS	1500	0401	34975	2779				14918															



TABLE IV.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	UNITS INCHES	MARDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT PER	SEA	TYPE		AMT			
318007		EV	43450N	044260W		149	34	11	09	221	1966	079		4755	15	02	5	3		X2	0	3	0093	
						WATER		WIND		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE											
						DT	SO	03	S25	193	139	133	6	38										
MESSNGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	D <sub>2</sub> ml/l	PD <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	ND <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C						
		STD	0000	1744	3498	2541	0025785	0000	15148															
221		OBS	0000	1744	34975	2541			15148															
		STD	0010	1744	3498	2541	0025818	0026	15150															
		OBS	0010	1744	34975	2541			15150															
		STD	0020	1759	3498	2537	0026196	0052	15156															
002		OBS	0020	1759	34975	2537			15156															
		OBS	0025	1761	34995	2538			15158															
		STD	0030	1780	3506	2538	0026135	0078	15165															
		OBS	0030	1780	35055	2538			15165															
		STD	0050	1868	3560	2558	0024369	0128	15200															
		OBS	0050	1868	35595	2558			15200															
		OBS	0055	1887	35725	2563			15207															
		STD	0075	1825	3588	2590	0021393	0186	15195															
		OBS	0075	1825	35875	2590			15195															
		OBS	0090	1819	36180	2615			15199															
		STD	0100	1620	3596	2645	0016181	0233	15139															
		OBS	0100	1620	35955	2645			15139															
		STD	0125	1599	3606	2658	0015069	0272	15138															
		OBS	0125	1599	36055	2658			15138															
		STD	0150	1480	3591	2673	0013640	0308	15103															
		OBS	0150	1480	35910	2673			15103															
		STD	0200	1208	3543	2693	0011890	0371	15016															
		OBS	0200	1208	35430	2693			15016															
		STD	0250	1099	3530	2703	0010987	0429	14984															
		OBS	0260	1049	35205	2705			14967															
		OBS	0280	0921	34950	2706			14920															
		OBS	0290	0997	35258	2718			14954															
		STD	0300	0946	3506	2711	0010299	0482	14934															
		OBS	0300	0946	35055	2711			14934															
		OBS	0308	0960	35250	2723			14943															
		OBS	0312	0902	35150	2725			14921															
		OBS	0323	0915	35200	2727			14928															
		OBS	0371	0800	34990	2729			14890															
		STD	0400	0793	3506	2735	0008062	0574	14893															
		OBS	0400	0793	35060	2735			14893															
		OBS	0425	0694	34950	2741			14857															
		OBS	0443	0719	35050	2745			14871															
		OBS	0465	0630	34900	2746			14838															
		OBS	0475	0680	35050	2751			14861															
		STD	0500	0638	3499	2751	0006563	0647	14848															
		OBS	0500	0638	34985	2751			14848															
		OBS	0579	0490	34870	2761			14800															
		STD	0600	0499	3490	2761	0005557	0707	14807															
		OBS	0600	0499	34895	2761			14807															
		STD	0700	0480	3495	2768	0005029	0760	14817															
		OBS	0700	0480	34950	2768			14817															
		STD	0800	0466	3499	2772	0004707	0809	14828															
		OBS	0800	0466	34985	2772			14828															
		STD	0900	0453	3499	2774	0004652	0856	14839															
		OBS	0900	0453	34985	2774			14839															
		STD	1000	0440	3499	2775	0004593	0902	14851															
		OBS	1000	0440	34985	2775			14851															
		STD	1100	0420	3498	2777	0004514	0948	14859															
		OBS	1100	0420	34975	2777			14859															
		STD	1200	0435	3500	2777	0004620	0993	14882															
		OBS	1200	0435	35000	2777			14882															
		STD	1300	0400	3499	2780	0004376	1038	14884															
		OBS	1300	0400	34985	2780			14884															
		STD	1400	0389	3499	2781	0004324	1082	14896															
		OBS	1400	0389	34985	2781			14896															
		STD	1500	0378	3498	2781	0004306	1125	14908															
		OBS	1500	0378	34980	2781			14908															

TABLE IV.—Continued

REFERENCE	SHIP ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT DIRECTION	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
						10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO- METER (mba)													DRY BULB	
318007	EV		43530N	045080W		149	35	11	10	024	1966		080	4641	15	01	3	<		X2	0	3	0094	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS						
						COLOR CODE	TRANS. IMI	DIR.	SPEED OR FORCE	BARO-METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						DT	SD	34	525	193	133	117	5	29										
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> <sup>2</sup>		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SI O <sub>4</sub> -Si μg - at/l	pH	S C/C						
		STD	0000	1587	3413	2512	0028489		0000	15090														
024		OBS	0000	1587	34125	2512				15090														
		STD	0010	1591	3412	2511	0028641		0029	15093														
		OBS	0010	1591	34120	2511				15093														
		STD	0020	1591	3412	2511	0028671		0057	15095														
002		OBS	0020	1591	34120	2511				15095														
		OBS	0025	1596	34120	2510				15097														
		STD	0030	1601	3415	2511	0028735		0086	15100														
		OBS	0030	1601	34145	2511				15100														
		OBS	0044	1719	34755	2530				15145														
		STD	0050	1660	3485	2551	0024991		0140	15130														
		OBS	0050	1660	34845	2551				15130														
		STD	0075	1280	3522	2662	0014459		0189	15017														
		OBS	0075	1280	35220	2662				15017														
		OBS	0082	1193	35075	2668				14987														
		STD	0100	1285	3549	2682	0012679		0223	15026														
		OBS	0100	1285	35485	2682				15026														
		OBS	0110	1299	35525	2682				15033														
		STD	0125	1245	3548	2689	0012022		0254	15017														
		OBS	0125	1245	35480	2689				15017														
		STD	0150	1204	3545	2695	0011577		0483	15006														
		OBS	0150	1204	35445	2695				15006														
		STD	0200	1120	3536	2703	0010836		0339	14984														
		OBS	0200	1120	35355	2703				14984														
		STD	0250	1031	3529	2714	0009879		0391	14960														
		STD	0300	0945	3522	2724	0009067		0438	14936														
		OBS	0300	0945	35220	2724				14936														
		STD	0400	0786	3508	2738	0007810		0523	14891														
		OBS	0400	0786	35080	2738				14891														
		OBS	0470	0709	35120	2752				14873														
		STD	0500	0635	3504	2756	0006152		0593	14848														
		OBS	0500	0635	35035	2756				14848														
		OBS	0515	0589	34985	2758				14831														
		STD	0600	0553	3500	2763	0005462		0651	14831														
		OBS	0600	0553	35000	2763				14831														
		STD	0700	0509	3500	2769	0005022		0703	14829														
		OBS	0700	0509	35000	2769				14829														
		STD	0800	0473	3500	2773	0004684		0752	14831														
		OBS	0800	0473	35000	2773				14831														
		STD	0900	0455	3501	2775	0004530		0798	14840														
		OBS	0900	0455	35005	2775				14840														
		STD	1000	0440	3501	2777	0004446		0843	14851														
		OBS	1000	0440	35005	2777				14851														
		STD	1100	0421	3499	2778	0004417		0887	14859														
		OBS	1100	0421	34990	2778				14859														
		STD	1200	0410	3499	2779	0004373		0931	14872														
		OBS	1200	0410	34990	2779				14872														
		STD	1300	0387	3499	2781	0004210		0974	14879														
		OBS	1300	0387	34985	2781				14879														
		STD	1400	0380	3499	2782	0004209		1016	14892														
		OBS	1400	0380	34985	2782				14892														
		STD	1500	0378	3499	2782	0004269		1058	14908														
		OBS	1500	0378	34985	2782				14908														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCH	MARS DEN SQUARE		STATION TIME GMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	ID. NO.					MO	DAY	HR./10	CRUISE NO.	STATION NUMBER		DIR	HGT			PER	SEA	TYPE	AMT					
318007	EV		44000N	045500W		149	45	11	10	056	1966	081		4389	14	34	5	2		X2	0	3	0095	
					WATER		WIND		AIR TEMP. °C		BARO- METER (mb)		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB												
					DT	SD	01	525	227	122	106	8	37											
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-10 <sup>7</sup>		Σ Δ ρ DN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH						
		STD	0000	1468	3374	2509		0028809		0000	15048													
	056	OBS	0000	1468	33740	2509					15048													
		STD	0010	1469	3374	2509		0028857		0029	15050													
		OBS	0010	1469	33740	2509					15050													
		STD	0020	1469	3374	2509		0028885		0058	15052													
	002	OBS	0020	1469	33740	2509					15052													
		OBS	0025	1469	33740	2509					15053													
		STD	0030	1469	3374	2509		0028913		0087	15053													
		OBS	0030	1469	33740	2509					15053													
		OBS	0039	1509	34140	2531					15073													
		OBS	0046	1400	33800	2528					15034													
		OBS	0049	1508	34750	2578					15081													
		STD	0050	1489	3495	2598		0020536		0136	15078													
		OBS	0050	1489	34950	2598					15078													
		OBS	0052	1421	3430P	2562P																		
		OBS	0055	1535P	3565P	2641P																		
		OBS	0058	1334	3410P	2565P																		
		OBS	0066	1164	3429P	2613P																		
		OBS	0068	1189	3500P	2663P																		
		OBS	0072	1101	3460P	2648P																		
		STD	0075	1144	3512	2681		0012686		0178	14969													
		OBS	0075	1144	35120	2681					14969													
		OBS	0080	1128	34950	2670					14962													
		STD	0100	1254	3539	2680		0012822		0209	15014													
		OBS	0100	1254	35385	2680					15014													
		OBS	0106	1251	35350	2678					15014													
		OBS	0114	1167	35125	2677					14984													
		STD	0125	1250	3553	2692		0011750		0240	15019													
		OBS	0125	1250	35530	2692					15019													
		STD	0150	1215	3546	2694		0011671		0269	15010													
		OBS	0150	1215	35460	2694					15010													
		STD	0200	1122	3536	2703		0010872		0326	14985													
		OBS	0200	1122	35355	2703					14985													
		STD	0250	1052	3528	2710		0010312		0379	14967													
		STD	0300	0959	3521	2720		0009407		0428	14941													
		OBS	0300	0959	35205	2720					14941													
		STD	0400	0701	3502	2745		0007021		0510	14857													
		OBS	0400	0701	35020	2745					14857													
		OBS	0418	0669	34970	2746					14847													
		OBS	0429	0700	35105	2752					14862													
		STD	0500	0601	3503	2760		0005733		0574	14834													
		OBS	0500	0601	35030	2760					14834													
		STD	0600	0539	3504	2768		0004986		0628	14826													
		OBS	0600	0539	35040	2768					14826													
		STD	0700	0498	3503	2772		0004662		0676	14825													
		OBS	0700	0498	35030	2772					14825													
		STD	0800	0467	3503	2776		0004387		0721	14829													
		OBS	0800	0467	35030	2776					14829													
		STD	0900	0443	3503	2779		0004195		0764	14836													
		OBS	0900	0443	35030	2779					14836													
		STD	1000	0425	3503	2780		0004073		0805	14845													
		OBS	1000	0425	35030	2780					14845													
		STD	1100	0406	3502	2781		0004045		0846	14853													
		OBS	1100	0406	35015	2781					14853													
		STD	1200	0409	3503	2782		0004066		0886	14872													
		OBS	1200	0409	35030	2782					14872													
		STD	1300	0398	3503	2783		0004056		0927	14884													
		OBS	1300	0398	35025	2783					14884													
		STD	1400	0392	3503	2784		0004070		0968	14898													
		OBS	1400	0392	35025	2784					14898													

TABLE IV.—Continued

REFERENCE		SNIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DRIFT INCH	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TPPL	AMT			
318	007	EV	44090N	046310W		149	46	11	10	097	1966		082	3931	15	02	2	2		X2	0	3	0096		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. DBS. DEPTHS	SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB																
		DT	SD	04	S20	254		094	078	7		37													
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ D DYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - dl/l	TOTAL-P μg - dl/l	NO <sub>2</sub> -N μg - dl/l	NO <sub>3</sub> -N μg - dl/l	SIO <sub>4</sub> -Si μg - dl/l	pH						
		STD	0000	1360	3343	2508		0028932		0000		15009													
	097	OBS	0000	1360	33430	2508						15009													
		STD	0010	1360	3342	2507		0029031		0029		15011													
		OBS	0010	1360	33420	2507						15011													
		STD	0020	1360	3343	2507		0029020		0058		15012													
	002	OBS	0020	1360	33425	2507						15012													
		OBS	0025	1451	33655	2506						15046													
		STD	0030	1473	3390	2520		0027860		0086		15057													
		OBS	0030	1473	33895	2520						15057													
		OBS	0033	1493	34105	2532						15066													
		STD	0050	1160	3404	2593		0020895		0135		14957													
		OBS	0050	1160	34035	2593						14957													
		OBS	0061	0823	34020	2649						14835													
		OBS	0066	1073	35040	2687						14941													
		OBS	0071	1027	34945	2688						14925													
		STD	0075	1110	3514	2689		0011939		0176		14957													
		OBS	0075	1110	35140	2689						14957													
		OBS	0079	1024	34945	2689						14925													
		STD	0100	1147	3535	2698		0011110		0205		14977													
		OBS	0100	1147	35350	2698						14977													
		OBS	0108	1169	35365	2695						14986													
		STD	0125	1113	3526	2697		0011229		0233		14968													
		OBS	0125	1113	35260	2697						14968													
		STD	0150	1027	3513	2702		0010800		0261		14940													
		OBS	0150	1027	35125	2702						14940													
		OBS	0161	0992	35115	2707						14929													
		OBS	0180	1070	35265	2705						14962													
		STD	0200	0906	3504	2716		0009564		0311		14903													
		OBS	0200	0906	35040	2716						14903													
		STD	0250	0809	3507	2733		0007984		0355		14874													
		OBS	0260	0789	35070	2737						14869													
		OBS	0270	0812	35130	2738						14880													
		STD	0300	0780	3511	2741		0007358		0394		14872													
		OBS	0300	0780	35105	2741						14872													
		STD	0400	0631	3506	2758		0005803		0459		14830													
		OBS	0400	0631	35055	2758						14830													
		OBS	0450	0570	35040	2764						14813													
		STD	0500	0566	3506	2766		0005091		0514		14820													
		OBS	0500	0566	35055	2766						14820													
		STD	0600	0496	3505	2774		0004371		0561		14808													
		OBS	0600	0496	35050	2774						14808													
		OBS	0640	0495	35045	2774						14814													
		OBS	0650	0517	35115	2777						14826													
		STD	0700	0490	3505	2775		0004413		0605		14822													
		OBS	0700	0490	35050	2775						14822													
		STD	0800	0450	3505	2779		0004029		0647		14822													
		OBS	0800	0450	35050	2779						14822													
		STD	0900	0427	3505	2781		0003887		0687		14829													
		OBS	0900	0427	35045	2781						14829													
		STD	1000	0410	3501	2781		0004036		0727		14838													
		OBS	1000	0410	3504P	2783P																			
		STD	1100	0411	3498	2778		0004365		0769		14855													
		OBS	1100	0411	3504P	2783P																			
		STD	1200	0378	3497	2780		0004156		0811		14858													
		OBS	1200	0378	34965	2780						14858													
		STD	1300	0376	3497	2780		0004218		0853		14874													
		OBS	1300	0376	34965	2780						14874													
		STD	1400	0372	3497	2781		0004216		0895		14889													
		OBS	1400	0372	34970	2781						14889													
		OBS	1480	0368	34965	2781						14901													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INDICATOR	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT			
318007	EV	4416 N	04712 W	149	47	11	13	142	1966		083	4023	15	35	2	2		X1	6	7		0097			
				WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
				COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB														
						33	515	274	100	078	7			14											
MESSNGR TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C								
		STD	0000	1314	3343	2517	0028064	0000	14994																
142		OBS	0000	1314	33428	2517			14994																
		STD	0010	1316	3344	2517	0028068	0028	14996																
142		OBS	0010	1316	33436	2517			14996																
		STD	0020	1249	3393	2568	0023207	0054	14981																
142		OBS	0026	15090	34131	25300																			
		STD	0030	1184	3413	2597	0020547	0076	14963																
		STD	0050	1055	3415	2621	0018245	0114	14921																
142		OBS	0051	1049	34150	2622			14919																
		STD	0075	0871	3438	2670	0013664	0154	14860																
		STD	0100	0744	3456	2703	0010541	0185	14818																
142		OBS	0103	0733	34582	2706			14815																
		STD	0125	0705	3466	2716	0009306	0209	14809																
		STD	0150	0675	3473	2726	0008424	0231	14802																
142		OBS	0153	0672	34742	2727			14801																
		STD	0200	0630	3482	2739	0007242	0271	14793																
142		OBS	0205	06020	34826	27430																			
		STD	0250	0591	3488	2749	0006370	0305	14787																
		STD	0300	0555	3493	2758	0005617	0335	14781																
142		OBS	0308	0550	34934	2758			14780																
		STD	0400	0498	3494	2765	0004991	0388	14774																
142		OBS	T0437	0482	34940	2767			14774																
		STD	0500	0466	3494	2769	0004704	0436	14778																
		STD	0600	0446	3494	2771	0004554	0482	14786																
142		OBS	T0615	0443	34944	2772			14787																
		STD	0700	0434	3495	2773	0004472	0528	14798																
		STD	0800	0422	3495	2774	0004430	0572	14809																
142		OBS	0820	0419	34954	2775			14811																
		STD	0900	0402	3494	2776	0004346	0616	14817																
		STD	1000	0387	3493	2776	0004376	0660	14828																
142		OBS	T1026	0384	34922	2776			14831																
		STD	1100	0381	3492	2777	0004407	0704	14842																
		STD	1200	0377	3493	2777	0004431	0748	14857																
142		OBS	1232	0376	34927	2777			14862																
		STD	1300	0374	3493	2778	0004450	0792	14872																
		STD	1400	0371	3493	2778	0004497	0837	14888																
		STD	1500	0368	3493	2779	0004542	0882	14904																
142		OBS	T1540	0367	34930	2779			14910																

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	MARS DEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
CRUISE CODE	ID. NO.					10"	1"	MO		DAY	HR. 1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA	TYPE
318007	EV	44200N	047320W	149	47	11	10	167	1966		084	3840	15	35	3	3		X1	0 3		0098	
		WATER		WIND		AIR TEMP. °C			NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mb)	DRY BULB	WET BULB	VIS. CODE														
DT	SD	35	S08	274	122	094	7	29														
MESSENGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C					
		STD	0000	1382	3358	2515	0028260	0000	15018													
167		OBS	0000	1382	33580	2515			15018													
		STD	0010	1382	3358	2515	0028286	0028	15020													
		OBS	0010	1382	33580	2515			15020													
		STD	0020	1382	3358	2515	0028313	0057	15022													
002		OBS	0020	1382	33580	2515			15022													
		OBS	0025	1383	33585	2515			15023													
		STD	0030	1383	3359	2515	0028322	0085	15024													
		OBS	0030	1383	33585	2515			15024													
		OBS	0040	1385	33590	2515			15026													
		STD	0050	1155	3358	2559	0024195	0137	14949													
		OBS	0050	1155	33575	2559			14949													
		OBS	0068	0651	34195	2687			14772													
		STD	0075	0700	3448	2703	0010499	0181	14796													
		OBS	0075	0700	34480	2703			14796													
		STD	0100	0688	3469	2721	0008816	0205	14798													
		OBS	0100	0688	34690	2721			14798													
		STD	0125	0694	3484	2732	0007857	0226	14807													
		OBS	0125	0694	34835	2732			14807													
		OBS	0130	0707	34870	2733			14813													
		STD	0150	0684	3491	2739	0007242	0245	14808													
		OBS	0150	0684	34905	2739			14808													
		OBS	0180	0639	34880	2743			14794													
		OBS	0189	0663	34990	2748			14807													
		STD	0200	0620	3491	2748	0006444	0279	14790													
		OBS	0200	0620	34910	2748			14790													
		STD	0250	0584	3494	2755	0005835	0310	14785													
		STD	0300	0548	3496	2760	0005345	0337	14779													
		OBS	0300	0548	34955	2760			14779													
		STD	0400	0474	3494	2768	0004731	0388	14764													
		OBS	0400	0474	34935	2768			14764													
		STD	0500	0456	3496	2771	0004483	0434	14774													
		OBS	0500	0456	34955	2771			14774													
		STD	0600	0450	3500	2775	0004223	0477	14788													
		OBS	0600	0450	34995	2775			14788													
		STD	0700	0437	3501	2777	0004100	0519	14800													
		OBS	0700	0437	35005	2777			14800													
		STD	0800	0423	3500	2778	0004071	0560	14810													
		OBS	0800	0423	35000	2778			14810													
		STD	0900	0409	3500	2780	0004001	0600	14821													
		OBS	0900	0409	35000	2780			14821													
		STD	1000	0396	3499	2780	0004012	0640	14832													
		OBS	1000	0396	34990	2780			14832													
		STD	1100	0391	3499	2781	0004065	0681	14847													
		OBS	1100	0391	34987	2781			14847													
		STD	1200	0378	3498	2781	0004061	0721	14858													
		OBS	1200	0378	34978	2781			14858													
		STD	1300	0373	3498	2782	0004107	0762	14873													
		OBS	1300	0373	34975	2782			14873													
		STD	1400	0368	3498	2782	0004114	0803	14887													
		OBS	1400	0368	34977	2782			14887													
		STD	1500	0367	3498	2783	0004149	0845	14904													
		OBS	1500	0367	34982	2783			14904													



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INCHES	MARSDEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8007	EV	44230N	047540W		149	47	11	10	185	1966		085	3592	15	35	2	2		X1	0	3	0099
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	35	506	295	122	092	7					31					
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ DYN. M. $\times 10^3$		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SI O <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH				
		STD	0000	1400	3357	2510		0028725		0000		15024											
185		OBS	0000	1400	33565	2510						15024											
		STD	0010	1400	3356	2510		0028788		0029		15026											
		OBS	0010	1400	33560	2510						15026											
		STD	0020	1400	3356	2510		0028814		0058		15027											
002		OBS	0020	1400	33560	2510						15027											
		OBS	0025	1402	33575	2510						15029											
		STD	0030	1447	3371	2511		0028721		0086		15046											
		OBS	0030	1447	33705	2511						15046											
		OBS	0040	1724	35205	2563						15152											
		STD	0050	0919	3409	2640		0016488		0132		14871											
		OBS	0058	0645	33200	2610						14755											
		OBS	0064	0655	34500	2711						14777											
		OBS	0067	0655	34500	2711						14777											
		STD	0075	0696	3460	2713		0009553		0164		14796											
		OBS	0075	0696	34600	2713						14796											
		OBS	0080	0718	34675	2716						14806											
		STD	0100	0695	3470	2721		0008872		0187		14801											
		OBS	0100	0695	34695	2721						14801											
		STD	0125	0724	3481	2725		0008486		0209		14818											
		OBS	0125	0724	34805	2725						14818											
		STD	0150	0741	3493	2732		0007872		0229		14830											
		OBS	0150	0741	34925	2732						14830											
		OBS	0161	0688	34830	2732						14810											
		OBS	0199	0674	35035	2750						14813											
		STD	0200	0650	3486	2739		0007241		0267		14802											
		OBS	0200	0650	34855	2739						14802											
		OBS	0240	0562	34855	2751						14773											
		STD	0250	0556	3487	2753		0006010		0300		14772											
		STD	0300	0529	3492	2760		0005375		0329		14770											
		OBS	0300	0529	34920	2760						14770											
		STD	0400	0482	3497	2769		0004579		0378		14768											
		OBS	0400	0482	34968	2769						14768											
		STD	0500	0455	3497	2773		0004337		0423		14774											
		OBS	0500	0455	34973	2773						14774											
		STD	0600	0453	3500	2775		0004206		0466		14790											
		OBS	0600	0453	35002	2775						14790											
		STD	0700	0431	3500	2777		0004065		0507		14797											
		OBS	0700	0431	35000	2777						14797											
		STD	0800	0412	3499	2778		0004036		0548		14806											
		OBS	0800	0412	34987	2778						14806											
		STD	0900	0403	3499	2779		0004025		0588		14819											
		OBS	0900	0403	34987	2779						14819											
		STD	1000	0399	3499	2780		0004041		0628		14834											
		OBS	1000	0399	34991	2780						14834											
		STD	1100	0376	3497	2781		0004022		0669		14840											
		OBS	1100	0376	34968	2781						14840											
		STD	1200	0374	3497	2781		0004092		0709		14856											
		OBS	1200	0374	34967	2781						14856											
		STD	1300	0370	3497	2782		0004091		0750		14871											
		OBS	1300	0370	34972	2782						14871											
		STD	1400	0369	3498	2782		0004127		0791		14888											
		OBS	1400	0369	34977	2782						14888											
		STD	1500	0362	3498	2783		0004135		0832		14902											
		OBS	1500	0362	34975	2783						14902											

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	OUT INCH	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
31	8007	EV	44250N	048060W		149	48	11	10	197	1966		086	3475	15	33	2	3		X1	0	3	0100		
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER (mba)	ORY BULB	WET BULB													
						DT	SD	33	508	305	100	078	7	31											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 <sup>3</sup>		Σ Δ 0 DYN. M. x 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH							
		STD	0000	1360	3335	2502	0029519		0000		15008														
	197	OBS	0000	1360	33350	2502					15008														
		STD	0010	1360	3335	2502	0029545		0030		15010														
		OBS	0010	1360	33350	2502					15010														
	002	STD	0020	1363	3336	2501	0029592		0059		15012														
		OBS	0020	1363	33355	2501					15012														
		OBS	0025	1363	33355	2501					15013														
		STD	0030	1360	3336	2502	0029559		0089		15013														
		OBS	0030	1360	33355	2502					15013														
		STD	0050	0697	3372	2644	0016084		0134		14781														
		OBS	0054	0643	33855	2662					14762														
		STD	0075	0795	3485	2718	0009099		0166		14838														
		OBS	0075	0795	34845	2718					14838														
		OBS	0079	0765	34790	2718					14826														
		OBS	0088	0789	34830	2718					14837														
		STD	0100	0738	3476	2719	0009009		0188		14819														
		OBS	0100	0738	34755	2719					14819														
		OBS	0119	0588	34565	2725					14760														
		STD	0125	0642	3466	2725	0008477		0210		14784														
		OBS	0125	0642	34800	27360																			
		STD	0150	0722	3493	2735	0007609		0230		14825														
		OBS	0150	0722	34925	2735					14823														
		OBS	0165	0742	34980	2736					14834														
		OBS	0191	0624	34865	2744					14790														
		STD	0200	0654	3497	2747	0006476		0266		14805														
		OBS	0200	0654	34965	2747					14805														
		OBS	0220	0658	34990	2749					14810														
		STD	0250	0557	3488	2753	0005985		0297		14773														
		OBS	0250	0557	34875	2753					14773														
		STD	0300	0527	3490	2758	0005537		0326		14769														
		OBS	0300	0527	34895	2758					14769														
		STD	0400	0489	3497	2769	0004646		0376		14771														
		OBS	0400	0489	34970	2769					14771														
		STD	0500	0447	3496	2773	0004341		0421		14770														
		OBS	0500	0447	34960	2773					14770														
		STD	0600	0441	3499	2776	0004132		0464		14785														
		OBS	0600	0441	34993	2776					14785														
		STD	0700	0438	3501	2777	0004097		0505		14800														
		OBS	0700	0438	35007	2777					14800														
		STD	0800	0424	3501	2779	0004031		0546		14811														
		OBS	0800	0424	35007	2779					14811														
		STD	0900	0413	3501	2780	0004005		0586		14823														
		OBS	0900	0413	35006	2780					14823														
		STD	1000	0397	3500	2781	0003988		0626		14833														
		OBS	1000	0397	34995	2781					14833														
		STD	1100	0386	3498	2781	0004056		0666		14845														
		OBS	1100	0386	34980	2781					14845														
		STD	1200	0372	3497	2782	0004023		0706		14855														
		OBS	1200	0372	34973	2782					14855														
		STD	1300	0370	3497	2782	0004099		0747		14871														
		OBS	1300	0370	34971	2782					14871														
		STD	1400	0367	3498	2782	0004102		0788		14887														
		OBS	1400	0367	34977	2782					14887														
		STD	1500	0362	3498	2783	0004128		0829		14902														
		OBS	1500	0362	34976	2783					14902														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH METER	MARSSEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	ID. NO.					10'	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318007	EV	44270N	048210W	149	48	11	10	214	1966	087	3240	15	03	2	4		X1	0	3		0101		
		WATER		WIND		BARO- METER		AIR TEMP. °C		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	DRY BULB	WET BULB	VIS. CODE															
		DT	SD	34	505	312	106	078	7	29													
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°	$\Sigma \Delta$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - dl/l	TOTAL-P µg - dl/l	NO <sub>3</sub> -N µg - dl/l	NO <sub>3</sub> -N µg - dl/l	SiO <sub>4</sub> -Si µg - dl/l	pH	S C						
		STD	0000	1330	3340	2511	0028611	0000	14999														
214		OBS	0000	1330	33395	2511			14999														
		STD	0010	1331	3340	2511	0028655	0029	15001														
		OBS	0010	1331	33395	2511			15001														
		STD	0020	1331	3340	2511	0028681	0057	15002														
002		OBS	0020	1331	33395	2511			15002														
		OBS	0025	1331	33395	2511			15003														
		STD	0030	1317	3340	2514	0028439	0086	14999														
		OBS	0030	1317	33395	2514			14999														
		STD	0050	1086	3346	2562	0023889	0138	14923														
		OBS	0050	1086	33455	2562			14923														
		STD	0075	0820	3465	2699	0010945	0182	14845														
		OBS	0075	0820	34645	2699			14845														
		STD	0100	0755	3471	2713	0009616	0407	14824														
		OBS	0100	0755	34705	2713			14824														
		STD	0125	0712	3481	2727	0008323	0230	14813														
		OBS	0125	0712	34805	2727			14813														
		STD	0150	0614	3474	2735	0007599	0250	14778														
		OBS	0150	0614	34735	2735			14778														
		OBS	0160	0563	34655	2735			14758														
		OBS	0170	0608	34935	2751			14781														
		OBS	0190	0553	34850	2751			14761														
		STD	0200	0570	3488	2751	0006078	0284	14770														
		OBS	0200	0570	34875	2751			14770														
		STD	0250	0529	3486	2755	0005732	0313	14761														
		OBS	0264	0517	34860	2757			14759														
		OBS	0280	0539	34955	2761			14772														
		STD	0300	0521	3494	2762	0005130	0341	14767														
		OBS	0300	0521	34940	2762			14767														
		STD	0400	0489	3499	2770	0004468	0389	14771														
		OBS	0400	0489	34994	2770			14771														
		STD	0500	0457	3500	2774	0004167	0432	14775														
		OBS	0500	0457	34999	2774			14775														
		STD	0600	0438	3500	2776	0004082	0473	14783														
		OBS	0600	0438	34995	2776			14783														
		STD	0700	0429	3500	2778	0004019	0514	14796														
		OBS	0700	0429	35003	2778			14796														
		STD	0800	0412	3499	2779	0004007	0554	14806														
		OBS	0800	0412	34991	2779			14806														
		STD	0900	0399	3499	2780	0003985	0594	14817														
		OBS	0900	0399	34986	2780			14817														
		STD	1000	0393	3498	2780	0004050	0634	14831														
		OBS	1000	0393	34980	2780			14831														
		STD	1100	0386	3498	2781	0004048	0674	14845														
		OBS	1100	0386	34981	2781			14845														
		STD	1200	0377	3498	2781	0004063	0715	14858														
		OBS	1200	0377	34976	2781			14858														
		STD	1300	0370	3498	2782	0004062	0755	14871														
		OBS	1300	0370	34976	2782			14871														
		STD	1400	0367	3498	2782	0004116	0796	14887														
		OBS	1400	0367	34975	2782			14887														
		STD	1500	0367	3499	2783	0004119	0838	14904														
		OBS	1500	0367	34986	2783			14904														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	UNITS INDEXT	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER			
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT				
318007		EV	44300N	048360W		149	48	11	10	229	1966		088	2700	15	00	0			X0	0	3	0102			
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB														
						DT	SD	22	SO2		322	089					072	7	25							
MESSENGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta C$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - ml/l$	TOTAL-P $\mu g - ml/l$	NO <sub>2</sub> -N $\mu g - ml/l$	NO <sub>3</sub> -N $\mu g - ml/l$	SiO <sub>4</sub> -Si $\mu g - ml/l$	pH	CLC								
		STD	0000	1148	3353	2556	0024327		0000	14938																
229		OBS	0000	1148	33525	2556				14938																
		STD	0010	1148	3352	2556	0024387		0024	14940																
		OBS	0010	1148	33520	2556				14940																
		STD	0020	1148	3352	2556	0024409		0049	14941																
002		OBS	0020	1148	33520	2556				14941																
		OBS	0025	1147	33520	2556				14942																
		STD	0030	1147	3352	2556	0024414		0073	14942																
		OBS	0030	1147	33520	2556				14942																
		STD	0050	1025	3352	2578	0022395		0120	14902																
		OBS	0050	1025	33520	2578				14902																
		STD	0075	0686	3421	2684	0012325		0163	14787																
		OBS	0075	0686	34210	2684				14787																
		OBS	0086	0736	34775	2721				14816																
		STD	0100	0671	3469	2723	0008629		0190	14791																
		OBS	0100	0671	34685	2723				14791																
		STD	0125	0602	3473	2735	0007488		0210	14769																
		OBS	0125	0602	34725	2735				14769																
		STD	0150	0575	3478	2743	0006818		0228	14762																
		OBS	0150	0575	34775	2743				14762																
		STD	0200	0538	3486	2754	0005841		0259	14757																
		OBS	0200	0538	34855	2754				14757																
		STD	0250	0507	3486	2757	0005537		0288	14752																
		STD	0300	0488	3485	2759	0005383		0315	14753																
		OBS	0300	0488	34854	2759				14753																
		STD	0400	0485	3501	2772	0004286		0363	14770																
		OBS	0400	0485	35012	2772				14770																
		STD	0500	0447	3498	2774	0004185		0406	14770																
		OBS	0500	0447	34981	2774				14770																
		STD	0600	0433	3499	2776	0004075		0447	14781																
		OBS	0600	0433	34988	2776				14781																
		STD	0700	0425	3500	2778	0004032		0488	14795																
		OBS	0700	0425	34995	2778				14795																
		STD	0800	0382	3494	2778	0004041		0528	14792																
		OBS	0800	0382	34939	2778				14792																
		STD	0900	0399	3498	2779	0004029		0568	14817																
		OBS	0900	0399	34980	2779				14817																
		STD	1000	0399	3499	2780	0004041		0609	14834																
		OBS	1000	0399	34991	2780				14834																
		STD	1100	0392	3499	2781	0004063		0649	14847																
		OBS	1100	0392	34989	2781				14847																
		STD	1200	0381	3499	2782	0004032		0690	14859																
		OBS	1200	0381	34987	2782				14859																
		STD	1300	0366	3497	2782	0004078		0730	14870																
		OBS	1300	0366	34967	2782				14870																
		STD	1400	0366	3497	2782	0004118		0771	14886																
		OBS	1400	0366	34973	2782				14886																
		STD	1500	0367	3499	2783	0004112		0812	14904																
		OBS	1500	0367	34987	2783				14904																

TABLE IV.—Continued

REFERENCE	CTRY CODE	IO. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH IN METERS	MARS DEN SQUARE		STATION TIME IGMT			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
							10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT		
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	BARO- METER (mbst)		AIR TEMP. °C	DRY RULB			WET RULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
318007			EV	44330N	048510W		149	48	11	11	005	1966		089		1737	15	00				X1	03		0103

TABLE IV.—Continued

REFERENCE		SHIP	LATITUDE	LONGITUDE	DRIFT	MARSDEN	STATION TIME			YEAR	ORIGINATOR'S		DEPTH	MAX. DEPTH	WAVE				WEA-	CLOUD	NODC		
CTRY	ID.	CODE	° '1/10	° '1/10	INDIC	SQUARE	10'	1'	MO	DAY	HR.1/10	CRUISE	STATION	TO	OF	DIR	HGT	PER	SEA	CODE	TYPE	AMT	STATION
CODE	NO.											NO.	NUMBER	BOTTOM	S'NFL'S								NUMBER
318007	EV		44360N	049060W		149	49	11	11	026	1966		090	0710	06	00				X1	013		0104
		WATER		WIND		BARO-		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR	TRANS.	DIR.	SPEED	METER		DRY		WET													
		CODE	Wt		OR	(mb)		BULB		BULB													
		DT	SD	27	S07	318		094		072		7		20									
MESSAGE	TIME OF	CAST	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME		Σ Δ θ		SOUND	O <sub>2</sub> ml/l	PO <sub>4</sub> -P	TOTAL-P	NO <sub>2</sub> -N	NO <sub>3</sub> -N	SiO <sub>4</sub> -Si	pH	S		
HR 1/10		NO.	TYPE							ANOMALY-10 <sup>3</sup>		10 <sup>3</sup>	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		C		
			STD	0000	0949	3338	2579		0022123		0000		14864										
026			OBS	0000	0949	33380	2579						14864										
			STD	0010	0872	3330	2585		0021610		0022		14836										
			OBS	0010	0872	33295	2585						14636										
			STD	0020	0733	3319	2597		0020501		0043		14783										
001			OBS	0020	0733	33185	2597						14783										
			OBS	0025	0699	33115	2596						14769										
			STD	0030	0645	3307	2599		0020286		0063		14748										
			OBS	0030	0645	33065	2599						14748										
			STD	0050	0450	3305	2620		0018263		0102		14671										
			OBS	0050	0450	33045	2620						14671										
			OBS	0057	0100	33205	2663						14523										
			OBS	0064	0046	33425	2683						14503										
			STD	0075	0041	3365	2701		0010534		0138		14505										
			OBS	0075	0041	33645	2701						14505										
			OBS	0086	0130	34055	2729						14553										
			STD	0100	0153	3410	2731		0007775		0161		14566										
			OBS	0100	0153	34100	2731						14566										
			STD	0125	0164	3413	2732		0007633		0180		14575										
			OBS	0125	0164	34130	2732						14575										
			STD	0150	0170	3412	2731		0007760		0199		14582										
			OBS	0150	0170	34120	2731						14582										
			OBS	0165	0225	34306	2742						14611										
			STD	0200	0268	3442	2747		0006323		0234		14637										
			OBS	0200	0268	34418	2747						14637										
			STD	0250	0307	3453	2753		0005866		0265		14664										
			STD	0300	0339	3461	2756		0005588		0294		14687										
			OBS	0300	0339	34613	2756						14687										
			STD	0400	0384	3472	2760		0005325		0348		14724										
			OBS	0400	0384	34721	2760						14724										
			STD	0500	0406	3478	2762		0005246		0401		14751										
			OBS	0500	0406	34776	2762						14751										
			STD	0600	0428	3487	2767		0004923		0452		14777										
			OBS	0600	0428	34866	2767						14777										
			OBS	0650	0428	34857	2766						14786										

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
318007	EV		44390N	049200W		149	49	11	11	040	1966		091	0058	01	22	1	2		X0	013	0105	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE		TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB		WET BULB													
		DT	SD	22	S14	318		067		001		7		08									
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$		$\Sigma \Delta \theta$ DYN. M. $\times 10^3$		SOUND VELOCITY		O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{at/l}$	TOTAL-P $\mu\text{g} - \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{at/l}$	pH	S C C		
		STD	0000	0551	3295	2602		0020038		0000		14704											
040		OBS	0000	0551	32950	2602						14704											
		STD	0010	0551	3295	2602		0020018		0020		14705											
		OBS	0010	0551	32950	2602						14705											
		STD	0020	0547	3295	2602		0019984		0040		14705											
000		OBS	0020	0547	32950	2602						14705											
		OBS	0025	0549	32965	2603						14707											
		STD	0030	0540	3298	2605		0019729		0060		14705											
		OBS	0030	0540	32975	2605						14705											
		OBS	0040	0180	32685	2616						14549											
		STD	0050	0055	3330	2672		0013276		0093		14503											
		OBS	0050	0055	33295	2672						14503											
		OBS	0055	0053	33545	2693						14506											



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA		TYPE	AMT		
31	8007	EV	4310 N	05020 W		150	30	11	11	131	1966		092		0073	00	00	0			X1	013		0106
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mb)		DRY BULB	WET BULB											
						DT	SD	19	S03	325	078	067	7					09						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$		$\Sigma \Delta \sigma$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	NOOC STATION NUMBER					
000	131	STD	0000	0720	3324	2603		0019891		0000	14775													
		OBS	0000	0720	33240	2603					14775													
		STD	0010	0718	3323	2602		0019954		0020	14776													
	000	OBS	0010	0718	33230	2602					14776													
		STD	0020	0718	3323	2602		0019966		0040	14778													
		OBS	0020	0718	33230	2602					14778													
		OBS	0025	0718	33230	2602					14778													
		STD	0030	0605	3305	2603		0019915		0060	14732													
		OBS	0030	0605	33050	2603					14732													
		OBS	0032	0530	32980	2606					14701													
		OBS	0042	0380	33055	2628					14641													
		OBS	0048	0370	33245	2644					14640													
STD	0050	0337	3322	2646		0015868		0096	14626															
OBS	0050	0337	33220	2646					14626															

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8007	EV	4300 N	05020 W		150	30	11	11	148	1966		093		0077	01	00	0			X1	013		0107
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE	(mba)		DRY BULB	WET BULB											
						DT	SD	00	S00	322		078	067	8	09									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$		$\Sigma \Delta \sigma$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	NOOC STATION NUMBER					
000	148	STD	0000	0705	3329	2609		0019323		0000	14770													
		OBS	0000	0705	33290	2609					14770													
		STD	0010	0689	3328	2610		0019206		0019	14765													
		OBS	0010	0689	33280	2610					14765													
		STD	0020	0677	3329	2613		0018992		0038	14762													
		OBS	0020	0677	33285	2612					14762													
		OBS	0025	0668	33255	2611					14759													
		STD	0030	0654	3326	2613		0018940		0057	14754													
		OBS	0030	0654	33255	2613					14754													
		OBS	0034	0650	33255	2613					14753													
		OBS	0042	0559	33255	2625					14718													
		STD	0050	0246	3317	2649		0015487		0092	14586													
	OBS	0050	0246	33165	2649					14586														
	OBS	0054	0203	33400	2671					14571														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE * 1/10	LONGITUDE * 1/10	DRIFT INCHES	MARSOEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.	1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	8007	EV	4251 N	05020 W		150	20	11	11	157	1966		094		0220	02		2			X1	0	3	0108
						WATER		WIND		BARO- METER (mbs)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	SD	OD	SOD		325	078				067	7	15						
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{dl/l}$	TOTAL-P $\mu\text{g} \cdot \text{dl/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{dl/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{dl/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{dl/l}$	pH	S CC						
		STD	0000	0943	3343	2584	0021660		0000	14863														
157		OBS	0000	0943	33430	2584				14863														
		STD	0010	0808	3336	2599	0020244		0021	14813														
		OBS	0010	0808	33355	2599				14813														
		STD	0020	0592	3306	2605	0019712		0041	14725														
000		OBS	0020	0592	33055	2605				14725														
		OBS	0025	0453	33120	2626				14670														
		STD	0030	0334	3315	2640	0016358		0059	14621														
		OBS	0030	0334	33150	2640				14621														
		OBS	0032	0253	33315	2660				14588														
		STD	0050	0185	3341	2673	0013216		0089	14562														
		OBS	0050	0185	33410	2673				14562														
		OBS	0061	0140	33445	2679				14545														
		STD	0075	0141	3386	2712	0009544		0117	14553														
		OBS	0075	0141	33855	2712				14553														
		OBS	0086	0140	33895	2715				14555														
		STD	0100	0197	3421	2736	0007263		0138	14567														
		OBS	0100	0197	34210	2736				14587														
		OBS	0120	0232	34255	2737				14606														
		STD	0125	0233	3426	2737	0007216		0156	14607														
		OBS	0125	0233	34255	2737				14607														
		STD	0150	0239	3429	2739	0007051		0174	14615														
		OBS	0150	0239	34285	2739				14615														
		OBS	0172	0261	34350	2742				14629														

TABLE IV.—Continued

REFERENCE	CTRY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER		
							10"	1"	MO	DAY		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
							10"	1"	MO	DAY		HR. 1/10													
318007			EV	4240 N	05020 W		150	20	11	11	163	1966		095	1372	13	15	1	3		X1	0	3		0109
							WATER		WIND		BARO- METER (mbars)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
							COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
							DT	SD	15	504		322	128					106	7	27					
MESSENGR TIME HR 1/10		CAST NO.		CARD TYPE	DEPTH (m)	T °C	S ‰		SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta$ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH				
			STD	0000	1178	3305	2514		0028355		0000		14943												
163			OBS	0000	1178	33050	2514						14943												
			STD	0010	1154	3302	2516		0028178		0028		14935												
			OBS	0010	1154	33020	2516						14935												
			STD	0020	1012	3304	2542		0025673		0055		14886												
002			OBS	0020	1012	33040	2542						14886												
			OBS	0025	0890	33120	2568						14843												
			STD	0030	0839	3334	2593		0020867		0078		14827												
			OBS	0030	0839	33335	2593						14827												
			STD	0050	0556	3366	2657		0014837		0114		14723												
			OBS	0050	0556	33655	2657						14723												
			OBS	0063	0414	33765	2681						14668												
			STD	0075	0530	3427	2708		0010003		0145		14725												
			OBS	0075	0530	34265	2708						14725												
			OBS	0087	0376	34085	2711						14660												
			STD	0100	0397	3450	2741		0006876		0166		14677												
			OBS	0100	0397	34495	2741						14677												
			OBS	0107	0358	34550	2749						14662												
			STD	0125	0430	3471	2755		0005628		0182		14698												
			OBS	0125	0430	34710	2755						14698												
			OBS	0130	0450	34755	2756						14708												
			STD	0150	0457	3475	2755		0005644		0196		14714												
			OBS	0150	0457	34750	2755						14714												
			OBS	0180	0466	34825	2760						14723												
			STD	0200	0436	3484	2764		0004796		0222		14714												
			OBS	0200	0436	34840	2764						14714												
			STD	0250	0434	3484	2764		0004826		0246		14722												
			STD	0300	0433	3484	2765		0004867		0270		14730												
			OBS	0300	0433	34840	2765						14730												
			STD	0400	0434	3485	2765		0004944		0319		14747												
			OBS	0400	0434	34845	2765						14747												
			STD	0500	0438	3488	2767		0004870		0369		14765												
			OBS	0500	0438	34875	2767						14765												
			STD	0600	0429	3488	2768		0004831		0417		14778												
			OBS	0600	0429	34880	2768						14778												
			STD	0700	0417	3492	2773		0004494		0464		14790												
			OBS	0700	0417	34920	2773						14790												
			STD	0800	0410	3491	2773		0004576		0509		14804												
			OBS	0800	0410	34911	2773						14804												
			STD	0900	0404	3491	2773		0004584		0555		14818												
			OBS	0900	0404	34913	2773						14818												
			STD	1000	0402	3492	2774		0004617		0601		14834												
			OBS	1000	0402	34918	2774						14834												
			STD	1100	0400	3492	2774		0004677		0647		14850												
			OBS	1100	0400	34919	2774						14850												
			STD	1200	0388	3494	2777		0004501		0693		14862												
			OBS	1200	0388	34935	2777						14862												
			STD	1300	0375	3494	2779		0004375		0738		14873												
			OBS	1300	0375	34942	2779						14873												

TABLE IV.—Continued

REFERENCE CTRY CODE	ID. NO.	SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH FATHOMS	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
						10'	1'	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
						10'	1'	MO	DAY	HR./10													
318007		EV	4230 N	05020 W	150	20	11	11	179	1966		096		2176	15	15	2	3		X1	0	3	0110
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. MM	DIR.	SPEED OR FORCE	METER (mbs)	DRY BULB	WET BULB											
						DT	SD	15	S03	322	133	106	7					29					
MESSAGE TIME HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	SIO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	SIC						
		STO	0000	1199	3306	2511	0028654	0000	14950														
	179	OBS	0000	1199	33060	2511			14950														
		STO	0010	1193	3306	2512	0028570	0029	14949														
		OBS	0010	1193	33060	2512			14949														
	002	STO	0020	1090	3307	2531	0026771	0056	14915														
		OBS	0020	1090	33065	2531			14915														
		OBS	0025	1080	33195	2543			14914														
		STO	0030	0990	3321	2559	0024120	0082	14882														
		OBS	0030	0990	33205	2559			14882														
		STO	0050	0640	3336	2623	0018083	0124	14753														
		OBS	0050	0640	33355	2623			14753														
		STO	0075	0498	3399	2690	0011741	0161	14708														
		OBS	0075	0498	33985	2690			14708														
		OBS	0085	0484	34110	2701			14706														
		STO	0100	0539	3455	2729	0008005	0186	14737														
		OBS	0100	0539	34550	2729			14737														
		OBS	0119	0589	34660	2732			14761														
		STO	0125	0535	3455	2730	0007989	0206	14739														
		OBS	0125	0535	34550	2730			14739														
		OBS	0128	0536	34605	2734			14741														
		OBS	0130	0562	34600	2731			14752														
		OBS	0140	0445	34480	2735			14703														
		STO	0150	0479	3469	2747	0006372	0224	14722														
		OBS	0150	0479	34685	2747			14722														
		STO	0200	0446	3476	2756	0005540	0254	14717														
		OBS	0200	0446	34755	2756			14717														
		STO	0250	0456	3485	2763	0004993	0280	14731														
		STO	0300	0462	3492	2768	0004600	0304	14743														
		OBS	0300	0462	34919	2768			14743														
		STO	0400	0465	3497	2771	0004395	0349	14761														
		OBS	0400	0465	34966	2771			14761														
		STO	0500	0438	3496	2773	0004252	0392	14766														
		OBS	0500	0438	34958	2773			14766														
		STO	0600	0453	3501	2776	0004162	0434	14790														
		OBS	0600	0453	35008	2776			14790														
		STO	0700	0440	3501	2777	0004091	0475	14801														
		OBS	0700	0440	35011	2777			14801														
		STO	0800	0415	3499	2778	0004065	0516	14807														
		OBS	0800	0415	34988	2778			14807														
		STO	0900	0390	3497	2779	0004026	0557	14813														
		OBS	0900	0390	34966	2779			14813														
		STO	1000	0376	3495	2779	0004053	0597	14823														
		OBS	1000	0376	34952	2779			14823														
		STO	1100	0374	3495	2780	0004101	0638	14839														
		OBS	1100	0374	34954	2780			14839														
		STO	1200	0368	3496	2780	0004107	0679	14853														
		OBS	1200	0368	34955	2780			14853														
		STO	1300	0363	3496	2781	0004122	0720	14868														
		OBS	1300	0363	34956	2781			14868														
		STO	1400	0362	3496	2782	0004156	0761	14885														
		OBS	1400	0362	34961	2782			14885														
		STO	1500	0361	3496	2782	0004203	0803	14901														
		OBS	1500	0361	34964	2782			14901														

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE °	LONGITUDE °	DATE MO DAY HR, 1/10	MARSDEN SQUARE	STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER	
CRUISE CODE	IO, NO.						10"	1"		MO	DAY			HR, 1/10	CRUISE NO.	STATION NUMBER		DIR.	HGT		PER
31	8007	EV	4150 N	05020 W	150	10	11	11	208	1966		097	2000	15	00	0		01	0	3	0111
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB		WET BULB														
DT	SD	11	S05	340	560	540	7	40													
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> °	Σ Δ σ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH	S C				
		STD	0000	1206	3286	2493	0030290	0000	14950												
	208	OBS	0000	1206	32855	2493			14950												
		STD	0010	1190	3285	2496	0030101	0030	14946												
		OBS	0010	1190	32845	2496			14946												
002		OBS	0015	1190	32850	2496			14947												
		STD	0020	1130	3286	2507	0029002	0060	14926												
		OBS	0020	1130	32855	2507			14926												
		OBS	0025	1070	32935	2524			14907												
		STD	0030	0920	3298	2552	0024737	0087	14853												
		OBS	0030	0920	32975	2552			14853												
		STD	0050	0584	3340	2633	0017109	0128	14731												
		OBS	0050	0584	33395	2633			14731												
		OBS	0055	0481	33400	2645			14690												
		OBS	0067	0558	34205	2700			14734												
		OBS	0072	0529	34155	2699			14723												
		STD	0075	0592	3446	2715	0009312	0161	14753												
		OBS	0075	0592	34455	2715			14753												
		OBS	0085	0804	34855	2717			14843												
		STD	0100	0731	3471	2717	0009247	0185	14815												
		OBS	0100	0731	34710	2717			14815												
		STD	0125	0635	3461	2722	0008798	0207	14780												
		OBS	0125	0635	34605	2722			14780												
		OBS	0131	0573	34550	2725			14755												
		OBS	0139	0601	34665	2731			14770												
		OBS	0148	0547	34600	2732			14748												
		STD	0150	0587	3471	2736	0007487	0228	14766												
		OBS	0150	0587	34705	2736			14766												
		OBS	0160	0659	34835	2737			14798												
		OBS	0172	0549	34700	2740			14754												
		STD	0200	0637	3493	2747	0006551	0263	14797												
		OBS	0200	0637	34925	2747			14797												
		OBS	0201	0655	35000	2750			14806												
		OBS	0210	0591	34900	2751			14780												
		OBS	0220	0671	35060	2753			14816												
		STD	0250	0599	3497	2755	0005831	0294	14791												
		OBS	0255	0598	34950	2754			14791												
		OBS	0270	0613	34975	2754			14800												
		STD	0300	0569	3496	2758	0005604	0322	14787												
		OBS	0300	0569	34955	2758			14787												
		STD	0400	0534	3496	2762	0005279	0377	14789												
		OBS	0400	0534	34958	2762			14789												
		STD	0500	0486	3495	2767	0004860	0427	14786												
		OBS	0500	0486	34952	2767			14786												
		OBS	0540	0509	35017	2770			14803												
		STD	0600	0478	3498	2771	0004655	0475	14800												
		OBS	0600	0478	34982	2771			14800												
		STD	0700	0457	3498	2773	0004503	0521	14808												
		OBS	0700	0457	34983	2773			14808												
		STD	0800	0454	3499	2774	0004515	0566	14823												
		OBS	0800	0454	34991	2774			14823												
		STD	0900	0433	3498	2776	0004434	0611	14831												
		OBS	0900	0433	34981	2776			14831												
		STD	1000	0422	3498	2776	0004442	0655	14843												
		OBS	1000	0422	34975	2776			14843												
		STD	1100	0411	3497	2777	0004475	0700	14855												
		OBS	1100	0411	34965	2777			14855												
		STD	1200	0392	3495	2777	0004463	0744	14863												
		OBS	1200	0392	34947	2777			14863												
		STD	1300	0388	3495	2778	0004487	0789	14879												
		OBS	1300	0388	34949	2778			14879												
		STD	1400	0381	3495	2779	0004485	0834	14892												
		OBS	1400	0381	34949	2779			14892												
		STD	1500	0376	3495	2779	0004507	0879	14907												
		OBS	1500	0376	34949	2779			14907												

TABLE IV.—Continued

REFERENCE	SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	MARSJOEN SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
					10"	1"	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT		PER	SEA		TYPE	AMT
318007	EV	4120 N	05020 W	150	10	11	11	231	1966		098	3658	15	00	0			x1	0	3		0112
					WATER		WIND		BARO- METER (mba)		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
					COLOR CODE	TRANS. (m)	OIR.	SPEED OR FORCE		DRY BULB	WET BULB											
					OT	SD	11	505	340	133	122	7	42									
MESSENGR TIME OF HR 1/10	CAST NO.	CARGO TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 <sup>3</sup>		Σ Δ O OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>2</sub> -N µg - at/l	NO <sub>3</sub> -N µg - at/l	SiO <sub>4</sub> -Si µg - at/l	pH	COND.	TDS			
		STD	0000	1196	3286	2495	0030112		0000	14946												
231		OBS	0000	1196	32855	2495				14946												
		STD	0010	1174	3283	2497	0029966		0030	14940												
		OBS	0010	1174	32825	2497				14940												
		STD	0020	1158	3285	2502	0029560		0060	14936												
002		OBS	0020	1158	32845	2502				14936												
		OBS	0025	1141	32825	2503				14931												
		STD	0030	1127	3283	2506	0029193		0089	14927												
		OBS	0030	1127	32825	2506				14927												
		OBS	0041	1084	32860	2516				14914												
		OBS	0042	1095	32885	2516				14918												
		STD	0050	0773	3322	2594	0020826		0139	14804												
		OBS	0050	0773	33220	2594				14804												
		OBS	0052	0733	33355	2610				14790												
		OBS	0057	0723	33355	2611				14787												
		OBS	0059	0600	33410	2632				14739												
		STD	0075	0504	3364	2661	0014430		0183	14706												
		OBS	0075	0504	33635	2661				14706												
		OBS	0086	0433	33805	2682				14680												
		STD	0100	0442	3407	2702	0010529		0214	14690												
		OBS	0100	0442	34070	2702				14690												
		OBS	0104	0458	34255	2715				14700												
		OBS	0107	0388	34310	2727				14672												
		OBS	0118	0421	34345	2727				14688												
		STD	0125	0380	3429	2726	0008309		0238	14671												
		OBS	0125	0380	34285	2726				14671												
		OBS	0127	0380	34470	2741				14674												
		OBS	0134	0434	34565	2743				14699												
		OBS	0146	0480	34670	2746				14722												
		STD	0150	0509	3472	2746	0006486		0257	14735												
		OBS	0150	0509	34715	2746				14735												
		OBS	0153	0520	34700	2744				14740												
		OBS	0160	0498	34575	2736				14730												
		OBS	0170	0531	34780	2749				14748												
		OBS	0178	0620	34970	2752				14788												
		STD	0200	0530	3486	2755	0005708		0287	14753												
		OBS	0200	0530	34860	2755				14753												
		OBS	0230	0519	34870	2757				14754												
		OBS	0246	0539	34875	2755				14765												
		STD	0250	0537	3488	2756	0005706		0316	14765												
		STD	0300	0510	3489	2759	0005409		0343	14762												
		OBS	0300	0510	34885	2759				14762												
		STD	0400	0475	3494	2768	0004698		0394	14765												
		OBS	0400	0475	34941	2768				14765												
		STD	0500	0453	3496	2772	0004440		0440	14773												
		OBS	0500	0453	34956	2772				14773												
		STD	0600	0452	3500	2775	0004224		0483	14789												
		OBS	0600	0452	34998	2775				14789												
		STD	0700	0446	3501	2777	0004141		0525	14804												
		OBS	0700	0446	35014	2777				14804												
		STD	0800	0426	3501	2778	0004063		0566	14812												
		OBS	0800	0426	35006	2778				14812												
		STD	0900	0408	3499	2779	0004041		0606	14821												
		OBS	0900	0408	34993	2779				14821												
		STD	1000	0402	3500	2780	0004026		0647	14835												
		OBS	1000	0402	34998	2780				14835												
		STD	1100	0381	3498	2781	0004017		0687	14842												
		OBS	1100	0381	34977	2781				14842												
		STD	1200	0385	3499	2782	0004030		0727	14861												
		OBS	1200	0385	34994	2782				14861												
		STD	1300	0381	3500	2782	0004061		0767	14876												
		OBS	1300	0381	34995	2782				14876												
		STD	1400	0381	3501	2783	0004075		0808	14893												
		OBS	1400	0381	35005	2783				14893												
		STD	1500	0378	3501	2784	0004115		0849	14909												
		OBS	1500	0378	35006	2784				14909												



TABLE IV.—Continued

REFERENCE		SHIP CDDE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH DF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. ND.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
31	8007	EV	4120 N	05020 W		150	10	11	12	030	1966		099	3840	15	00	0			X0	0	3	0113
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLDR CODE	TRANS. Wt	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
						DT	SD	00	500		340	133			122	7	34						
MESSENGER TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta D$ DYN. M. $\times 10^3$		SOUND VELOCITY	D <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - \text{at/l}$	TOTAL-P $\mu g - \text{at/l}$	NO <sub>2</sub> -N $\mu g - \text{at/l}$	NO <sub>3</sub> -N $\mu g - \text{at/l}$	SiO <sub>4</sub> -Si $\mu g - \text{at/l}$	pH					
		STD	0000	1817	3505	2529	0026939		0000		15170												
	030	OBS	0000	1817	35050	2529					15170												
		STD	0010	1817	3505	2529	0026972		0027		15172												
		OBS	0010	1817	35050	2529					15172												
		STD	0020	1817	3505	2529	0027006		0054		15174												
	002	OBS	0020	1817	35050	2529					15174												
		OBS	0025	1818	35050	2528					15175												
		STD	0030	1818	3505	2528	0027099		0081		15176												
		OBS	0030	1818	35045	2528					15176												
		STD	0050	1869	3536	2539	0026134		0134		15197												
		OBS	0050	1869	35355	2539					15197												
		STD	0075	1523	3540	2625	0018041		0189		15098												
		OBS	0075	1523	35400	2625					15098												
		STD	0100	1495	3584	2664	0014351		0230		15099												
		OBS	0100	1495	35835	2664					15099												
		STD	0125	1341	3555	2675	0013399		0265		15050												
		OBS	0125	1341	35545	2675					15050												
		STD	0150	1263	3554	2690	0012027		0296		15027												
		OBS	0150	1263	35535	2690					15027												
		OBS	0188	1119	35285	2698					14981												
		STD	0200	1132	3540	2704	0010757		0353		14989												
		OBS	0200	1132	35395	2704					14989												
		OBS	0232	1040	35295	2713					14960												
		STD	0250	1022	3528	2715	0009770		0405		14956												
		OBS	0281	0991	35265	2719					14950												
		STD	0300	0906	3518	2726	0008770		0451		14921												
		OBS	0300	0906	35175	2726					14921												
		OBS	0345	0839	35150	2735					14903												
		OBS	0377	0690	34955	2742					14848												
		STD	0400	0698	3505	2748	0006757		0529		14856												
		OBS	0400	0698	35050	2748					14856												
		OBS	0460	0628	35020	2755					14838												
		OBS	0479	0537	34854	2754					14802												
		STD	0500	0526	3495	2762	0005401		0589		14802												
		OBS	0500	0526	34945	2762					14802												
		OBS	0550	0468	34880	2764					14786												
		OBS	0560	0494	34908	2763					14799												
		OBS	0565	0468	34927	2768					14789												
		STD	0600	0458	3493	2769	0004815		0641		14791												
		OBS	0600	0458	34928	2769					14791												
		STD	0700	0420	3492	2772	0004537		0687		14791												
		OBS	0700	0420	34919	2772					14791												
		STD	0800	0421	3496	2776	0004321		0732		14809												
		OBS	0800	0421	34963	2776					14809												
		STD	0900	0423	3498	2777	0004304		0775		14827												
		OBS	0900	0423	34982	2777					14827												
		STD	1000	0401	3497	2778	0004206		0817		14834												
		OBS	1000	0401	34972	2778					14834												
		STD	1100	0397	3498	2779	0004220		0859		14849												
		OBS	1100	0397	34976	2779					14849												
		STD	1200	0398	3499	2780	0004222		0902		14866												
		OBS	1200	0398	34990	2780					14866												
		STD	1300	0390	3499	2781	0004211		0944		14880												
		OBS	1300	0390	34990	2781					14880												
		STD	1400	0388	3500	2782	0004223		0986		14896												
		OBS	1400	0388	34997	2782					14896												
		STD	1500	0380	3500	2783	0004193		1028		14909												
		OBS	1500	0380	34999	2783					14909												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	NODC STATION NUMBER	MARSEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT		
31	8007	EV	4050 N	05020 W		150	00	11	12	060	1966		100		4407	15	12	2	4		X1	03		0114
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
						DT	SD	12	S14	335	194	133	7	34										
MESSAGE TIME HR 1/10	CAS- T NO.	CARD TYPE	DEPTH (m)	T °C	S %.	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D CYL. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C							
		STD	0000	1869	3536	2539	0025925	0000	15189															
060		OBS	0000	1869	35360	2539			15189															
		STD	0010	1889	3542	2538	0026043	0026	15197															
		OBS	0010	1889	35415	2538			15197															
		STD	0020	1911	3556	2544	0025598	0052	15206															
002		OBS	0020	1911	35555	2544			15206															
		OBS	0025	1913	35625	2548			15209															
		STD	0030	1914	3564	2549	0025126	0077	15210															
		OBS	0030	1914	35635	2549			15210															
		OBS	0048	1940	35805	2555			15222															
		STD	0050	1922	3592	2569	0023328	0126	15219															
		OBS	0050	1922	35920	2569			15219															
		OBS	0061	1695	35790	2615			15154															
		OBS	0065	1737	36300	2644			15173															
		STD	0075	1727	3637	2652	0015502	0174	15172															
		OBS	0075	1727	36370	2652			15172															
		STD	0100	1620	3619	2663	0014507	0212	15142															
		OBS	0100	1620	36185	2663			15142															
		STD	0125	1564	3614	2672	0013721	0247	15128															
		OBS	0125	1564	36135	2672			15128															
		STD	0150	1479	3596	2678	0013254	0281	15104															
		OBS	0150	1479	35960	2678			15104															
		STD	0200	1380	3582	2688	0012417	0345	15078															
		OBS	0200	1380	35815	2688			15078															
		STD	0250	1316	3575	2696	0011754	0405	15064															
		STD	0300	1198	3559	2707	0010787	0462	15031															
		OBS	0300	1198	35590	2707			15031															
		OBS	0310	1168	35545	2709			15021															
		OBS	0320	1179	35585	2710			15027															
		STD	0400	0961	3530	2727	0008990	0561	14959															
		OBS	0400	0961	35295	2727			14959															
		STD	0500	0787	3515	2743	0007486	0643	14908															
		OBS	0500	0787	35150	2743			14908															
		STD	0600	0672	3515	2760	0005952	0710	14880															
		OBS	0600	0672	35152	2760			14880															
		OBS	0611	0671	35168	2761			14882															
		OBS	0633	0629	35116	2763			14868															
		OBS	0677	0612	35147	2767			14869															
		STD	0700	0567	3510	2770	0005007	0765	14854															
		OBS	0700	0567	35104	2770			14854															
		STD	0800	0527	3509	2773	0004740	0814	14854															
		OBS	0800	0527	35086	2773			14854															
		OBS	0840	0510	35086	2775			14854															
		OBS	0871	0533	35158	2778			14870															
		STD	0900	0510	3512	2778	0004358	0859	14865															
		OBS	0900	0510	35124	2778			14865															
		STD	1000	0463	3509	2781	0004097	0901	14861															
		OBS	1000	0463	35092	2781			14861															
		STD	1100	0427	3503	2781	0004168	0943	14862															
		OBS	1100	0427	35034	2781			14862															
		STD	1200	0410	3502	2781	0004153	0984	14872															
		OBS	1200	0410	35020	2781			14872															
		STD	1300	0400	3501	2782	0004177	1026	14884															
		OBS	1300	0400	35012	2782			14884															
		STD	1400	0388	3500	2782	0004179	1068	14896															
		OBS	1400	0388	35003	2782			14896															
		STD	1500	0380	3500	2783	0004185	1110	14909															
		OBS	1500	0380	35000	2783			14909															

TABLE IV.—Continued

REFERENCE	SHIP CODE	LATITUDE ° ' 1/10	LONGITUDE ° ' 1/10	DRIFT INCHES	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPLE'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER		
					10"	1'	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT			
318007	EV	4029 N	05020 W		150	00	11	12	095	1966		101		4023	15	13	2	2		X1	0	3		0115
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	METER	(mbs)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS													
		DT	SD	15	S11	340		183	139	7	33													
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> °10 <sup>3</sup>	Σ Δ σ OWN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	ST CC							
		STD	0000	1937	3546	2529	0026890	0000	15209															
	095	OBS	0000	1937	35455	2529			15209															
		STD	0010	1939	3546	2529	0026975	0027	15211															
		OBS	0010	1939	35455	2529			15211															
	002	STD	0020	1939	3546	2529	0027010	0054	15213															
		OBS	0020	1939	35455	2529			15213															
		OBS	0025	1939	35450	2528			15214															
		STD	0030	1939	3545	2528	0027082	0081	15215															
		OBS	0030	1939	35450	2528			15215															
		STD	0050	1939	3545	2528	0027152	0135	15218															
		OBS	0050	1939	35450	2528			15218															
		OBS	0061	1944	35450	2527			15221															
		STD	0075	1820	3571	2578	0022508	0197	15191															
		OBS	0075	1820	35705	2578			15191															
		STD	0100	1532	3567	2643	0016340	0246	15109															
		OBS	0100	1532	35670	2643			15109															
		OBS	0118	1474	35735	2661			15094															
		STD	0125	1530	3595	2665	0014334	0284	15115															
		OBS	0125	1530	35950	2665			15115															
		OBS	0140	1557	36105	2671			15128															
		STD	0150	1539	3606	2672	0013804	0319	15124															
		OBS	0150	1539	36060	2672			15124															
		OBS	0166	1390	35710	2677			15074															
		OBS	0179	1436	35905	2683			15094															
		STD	0200	1410	3587	2686	0012626	0385	15089															
		OBS	0200	1410	35870	2686			15089															
		STD	0250	1236	3556	2697	0011594	0446	15035															
		STD	0300	1146	3545	2706	0010852	0502	15011															
		OBS	0300	1146	35450	2706			15011															
		OBS	0325	1133	35467	2710			15011															
		STD	0400	0891	3513	2725	0009084	0602	14931															
		OBS	0400	0891	35127	2725			14931															
		OBS	0484	0699	34973	2742			14869															
		OBS	0494	0719	35039	2744			14880															
		STD	0500	0699	3500	2744	0007286	0684	14872															
		OBS	0500	0699	35002	2744			14872															
		STD	0600	0549	3497	2761	0005640	0748	14829															
		OBS	0600	0549	34969	2761			14829															
		OBS	0689	0499	34974	2768			14823															
		STD	0700	0559	3512	2772	0004790	0800	14851															
		OBS	0700	0559	35119	2772			14851															
		STD	0800	0541	3513	2775	0004585	0847	14861															
		OBS	0800	0541	35132	2775			14861															
		STD	0900	0475	3505	2776	0004465	0893	14849															
		OBS	0900	0475	35048	2776			14849															
		STD	1000	0441	3504	2779	0004237	0936	14852															
		OBS	1000	0441	35035	2779			14852															
		STD	1100	0426	3504	2781	0004126	0978	14862															
		OBS	1100	0426	35038	2781			14862															
		STD	1200	0409	3503	2782	0004103	1019	14872															
		OBS	1200	0409	35025	2782			14872															
		STD	1300	0399	3501	2782	0004194	1060	14884															
		OBS	1300	0399	35008	2782			14884															
		STD	1400	0391	3501	2782	0004174	1102	14897															
		OBS	1400	0391	35009	2782			14897															
		STD	1500	0380	3501	2783	0004134	1144	14910															
		OBS	1500	0380	35007	2783			14910															

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	MARDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER
CTRY CODE	ID. NO.				10"	1"	MO	DAY	HR.1/10	CRUISE NO.		STATION NUMBER	OBSERVATIONS				TYPE	AMT					
													DIR			HGT			PER		SEA		
318007	EV		3950 N	05020 W	114	90	11	12	128	1966		102		5486	15	13	2	2		X0	0	3	0116
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIL. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS					
						COLOR CODE		TRANS. DIR.		SPEED OR FORCE		DRY BULB WET BULB											
						DT		SD		15		328		189 150		7 44							
MESSENGER TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107		Σ Δ D DYN. M. X 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P µg - at/l	TOTAL-P µg - at/l	NO <sub>3</sub> -N µg - at/l	NO <sub>2</sub> -N µg - at/l	SIO <sub>4</sub> -Si µg - at/l	pH	S ODC				
		STD	0000	1752	3421	2481	0031515		0000		15141												
128		OBS	0000	1752	34213	2481					15141												
		STD	0010	1749	3421	2481	0031478		0031		15142												
		OBS	0010	1749	34213	2481					15142												
002		OBS	0018	1750	34220	2482					15144												
		STD	0020	1778	3449	2495	0030185		0062		15156												
		OBS	0020	1778	34487	2495					15156												
		OBS	0025	1808	34560	2493					15166												
		STD	0030	1825	3482	2509	0028899		0092		15175												
		OBS	0030	1825	34820	2509					15175												
		OBS	0044	1848	35020	2519					15186												
		STD	0050	1751	3486	2530	0026946		0148		15157												
		OBS	0050	1751	34860	2530					15157												
		STD	0075	1396	3526	2641	0016475		0202		15056												
		OBS	0075	1396	35255	2641					15056												
		OBS	0084	1442	35710	2666					15078												
		STD	0100	1360	3546	2664	0014363		0241		15051												
		OBS	0100	1360	35455	2664					15051												
		STD	0125	1269	3545	2682	0012733		0274		15024												
		OBS	0125	1269	35445	2682					15024												
		STD	0150	1220	3543	2690	0012021		0305		15011												
		OBS	0150	1220	35425	2690					15011												
		OBS	0173	1150	35255	2690					14989												
		OBS	0189	1181	35455	2700					15005												
		STD	0200	1165	3546	2703	0010914		0363		15001												
		OBS	0200	1165	35455	2703					15001												
		STD	0250	1055	3532	2712	0010070		0415		14969												
		STD	0300	0940	3521	2723	0009096		0463		14934												
		OBS	0300	0940	35205	2723					14934												
		STD	0400	0696	3505	2748	0006729		0542		14855												
		OBS	0400	0696	35050	2748					14855												
		OBS	0440	0597	34920	2751					14821												
		OBS	0478	0612	35020	2757					14834												
		OBS	0490	0565	34970	2759					14817												
		STD	0500	0616	3496	2752	0006451		0608		14839												
		OBS	0500	0616	3515P	2767P																	
		OBS	0511	0545	34950	2760					14812												
		OBS	0530	0540	34945	2761					14813												
		OBS	0539	0612	3525P	2776P																	
		OBS	0556	0540	35000	2765					14818												
		OBS	0561	0580	3514P	2771P																	
		OBS	0578	0539	34995	2765					14821												
		STD	0600	0539	3507	2770	0004801		0664		14826												
		OBS	0600	0539	35065	2770					14826												
		OBS	0610	0568	35145	2773					14840												
		STD	0700	0539	3512	2774	0004550		0711		14843												
		OBS	0700	0539	35116	2774					14843												
		OBS	0730	0502	35067	2775					14832												
		OBS	0746	0528	35145	2778					14847												
		STD	0800	0507	3511	2777	0004332		0756		14846												
		OBS	0800	0507	35106	2777					14846												
		OBS	0838	0495	3510P	2778P																	
		OBS	0856	0446	35006	2776					14830												
		OBS	0876	0472	35068	2778					14844												
		STD	0900	0440	3502	2778	0004225		0798		14834												
		OBS	0900	0440	35021	2778					14834												
		STD	1000	0420	3501	2780	0004137		0840		14843												
		OBS	1000	0420	35013	2780					14843												
		STD	1100	0399	3500	2781	0004068		0881		14850												
		OBS	1100	0399	35000	2781					14850												
		STD	1200	0392	3500	2782	0004073		0922		14864												
		OBS	1200	0392	35000	2782					14864												
		STD	1300	0382	3500	2782	0004059		0962		14877												
		OBS	1300	0382	34997	2782					14877												
		STD	1400	0373	3499	2783	0004082		1003		14890												
		OBS	1400	0373	34990	2783					14890												
		STD	1500	0373	3500	2784	0004072		1044		14907												
		OBS	1500	0373	35003	2784					14907												

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIST INCHES	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDDC STATION NUMBER		
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT			
31	8007	EV	3920 N	05020 W		114	90	11	12	175	1966		103	5440	15	13	8	4		X1	0	3	0117		
						WATER		WIND		BARO- METER (mba)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS										
		COLOR CODE	TRANS. (m)					DIR.	SPEED OR FORCE		DRY BULB	WET BULB													
			DT	SD	11	530	310									211	172	8	33						
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> × 10 <sup>3</sup>		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si D <sub>4</sub> -Si μg - at/l	pH	S C							
		STD	0000	2218	3624	2512	0028489		0000	15293															
175		OBS	0000	2218	36235	2512				15293															
		STD	0010	2218	3624	2512	0028528		0029	15295															
		OBS	0010	2218	36235	2512				15295															
002		STD	0020	2218	3624	2512	0028566		0057	15296															
		OBS	0020	2218	36235	2512				15296															
		OBS	0025	2217	36235	2513				15297															
		STD	0030	2217	3624	2513	0028578		0086	15298															
		OBS	0030	2217	36235	2513				15298															
		STD	0050	2218	3626	2514	0028538		0143	15302															
		OBS	0050	2218	36255	2514				15302															
		OBS	0062	2217	36260	2515				15303															
		OBS	0066	2133	36055	2522				15280															
		OBS	0070	2194	36605	2547				15303															
		STD	0075	2170	3655	2550	0025220		0210	15297															
		OBS	0075	2170	36550	2550				15297															
		STD	0100	1987	3657	2601	0020423		0267	15253															
		OBS	0100	1987	36570	2601				15253															
		STD	0125	1889	3661	2630	0017789		0315	15230															
		OBS	0125	1889	36610	2630				15230															
		STD	0150	1826	3654	2640	0016894		0358	15215															
		OBS	0150	1826	36535	2640				15215															
		OBS	0170	1770	36440	2647				15201															
		STD	0200	1778	3655	2653	0015852		0440	15210															
		OBS	0200	1778	36545	2653				15210															
		STD	0250	1725	3647	2660	0015322		0518	15202															
		STD	0300	1625	3630	2671	0014415		0592	15178															
		OBS	0300	1625	36302	2671				15178															
		STD	0400	1286	3569	2697	0012038		0725	15078															
		OBS	0400	1286	35686	2697				15078															
		STD	0500	0979	3525	2720	0009858		0834	14981															
		OBS	0500	0979	35247	2720				14981															
		OBS	0588	0623	34835	2741				14855															
		STD	0600	0664	3498	2747	0007138		0919	14875															
		OBS	0600	0664	34976	2747				14875															
		OBS	0639	0626	34952	2750				14866															
		OBS	0650	0699	35205	2760				14900															
		STD	0700	0661	3515	2761	0005934		0984	14892															
		OBS	0700	0661	35154	2761				14892															
		STD	0800	0609	3515	2768	0005355		1041	14888															
		OBS	0800	0609	35153	2768				14888															
		OBS	0866	0530	35071	2772				14866															
		OBS	0889	0558	35142	2774				14882															
		STD	0900	0540	3511	2774	0004845		1092	14877															
		OBS	0900	0540	35112	2774				14877															
		STD	1000	0496	3510	2778	0004475		1138	14875															
		OBS	1000	0496	35099	2778				14875															
		STD	1100	0439	3502	2778	0004402		1183	14867															
		OBS	1100	0439	35023	2778				14867															
		STD	1200	0414	3501	2780	0004314		1226	14873															
		OBS	1200	0414	35005	2780				14873															
		STD	1300	0390	3499	2781	0004233		1269	14880															
		OBS	1300	0390	34987	2781				14880															
		STD	1400	0383	3499	2782	0004232		1311	14894															
		OBS	1400	0383	34987	2782				14894															
		STD	1500	0377	3499	2782	0004241		1354	14908															
		OBS	1500	0377	34987	2782				14908															



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DEPTH INCHES	MARSDEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NDOC STATION NUMBER	
CRUISE CODE	IO. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT	PER	SEA	TYPE		AMT			
318007	EV		3850 N	05020 W		114	80	11	12	208	1966		104		5465	15	13	3	2		X2	0	3		0118
		WATER		WIND		AIR TEMP. °C		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
		COLOR CODE	TRANS. IMB	DIR.	SPEED OR FORCE	BARO- METER		DRY BULB	WET BULB																
		DT	SD	IO	S28	315	211	178	7	29															
MISSING TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-210°		Σ Δ σ DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C							
		STD	0000	2232	3635	2517	0028058		0000	15298															
208		OBS	0000	2232	36347	2517				15298															
		STD	0010	2232	3635	2517	0026097		0028	15300															
		OBS	0010	2232	36347	2517				15300															
		STD	0020	2232	3635	2517	0028136		0056	15301															
002		OBS	0020	2232	36347	2517				15301															
		OBS	0025	2232	36347	2517				15302															
		STD	0030	2232	3635	2517	0028175		0084	15303															
		OBS	0030	2232	36347	2517				15303															
		STD	0050	2232	3635	2517	0028253		0141	15306															
		OBS	0050	2232	36347	2517				15306															
		STD	0075	2232	3636	2518	0028256		0211	15311															
		OBS	0075	2232	36360	2518				15311															
		STD	0100	2161	3672	2565	0023865		0477	15301															
		OBS	0100	2161	36718	2565				15301															
		STD	0125	2031	3669	2598	0020789		0432	15270															
		OBS	0125	2031	36687	2598				15270															
		STD	0150	1945	3664	2617	0019047		0382	15250															
		OBS	0150	1945	36640	2617				15250															
		STD	0200	1839	3657	2640	0017115		0473	15228															
		OBS	0200	1839	36572	2640				15228															
		STD	0250	1812	3657	2646	0016654		0557	15228															
		STD	0300	1785	3655	2651	0016340		0639	15228															
		OBS	0300	1785	36548	2651				15228															
		STD	0400	1735	3647	2658	0016051		0801	15229															
		OBS	0400	1735	36471	2658				15229															
		STD	0500	1651	3632	2666	0015547		0959	15219															
		OBS	0500	1651	36316	2666				15219															
		STD	0600	1376	3583	2689	0013392		1104	15143															
		OBS	0600	1376	35825	2689				15143															
		STD	0700	1088	3541	2713	0011056		1226	15056															
		OBS	0700	1088	35407	2713				15056															
		STD	0800	0847	3514	2733	0009081		1327	14980															
		OBS	0800	0847	35135	2733				14980															
		OBS	0810	0813	35109	2736				14969															
		OBS	0816	0827	35127	2735				14975															
		OBS	0837	0723	35047	2744				14938															
		STD	0900	0641	3501	2753	0006987		1407	14916															
		OBS	0900	0641	35012	2753				14916															
		OBS	0940	0556	34961	2760				14888															
		OBS	0975	0568	35029	2764				14899															
		STD	1000	0538	3501	2766	0005722		1471	14891															
		OBS	1000	0538	35006	2766				14891															
		STD	1100	0451	3496	2772	0005020		1525	14871															
		OBS	1100	0451	34960	2772				14871															
		STD	1200	0463	3501	2775	0004899		1574	14894															
		OBS	1200	0463	35012	2775				14894															
		STD	1300	0445	3501	2776	0004808		1623	14903															
		OBS	1300	0445	35006	2776				14903															
		STD	1400	0421	3499	2778	0004676		1670	14910															
		OBS	1400	0421	34994	2778				14910															
		STD	1500	0412	3500	2779	0004629		1717	14923															
		OBS	1500	0412	34997	2779				14923															



TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC. 10"	MARSDEN SQUARE		STATION TIME (GMT)				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR.			HGT PER	SEA	TYPE		AMT				
318007	EV		3820 N	05020 W		114	80	11	13	004	1966		105	5490	15	13	5	2		X2	0	3	0119		
		WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS														
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB																	
		DT	SD	10	S32		295	211																	
MESSAGE TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-X10 <sup>3</sup>		Σ Δ σ DTN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH								
	004	STD	0000	2240	3633	2514	0028383		0000	15300															
		OBS	0000	2240	36332	2514				15300															
		STD	0010	2240	3633	2514	0028422		0028	15302															
		OBS	0010	2240	36332	2514				15302															
		STD	0020	2240	3633	2514	0028461		0057	15303															
		OBS	0020	2240	36332	2514				15303															
		OBS	0025	2242	36332	2513				15305															
		STD	0030	2242	3633	2513	0028554		0085	15305															
		OBS	0030	2242	36332	2513				15305															
		STD	0050	2244	3633	2512	0028686		0143	15309															
		OBS	0050	2244	36332	2512				15309															
		STD	0075	2244	3633	2512	0028784		0214	15313															
		OBS	0075	2244	36332	2512				15313															
		STD	0100	2241	3633	2513	0028799		0286	15317															
		OBS	0100	2241	36332	2513				15317															
		STD	0125	2185	3662	2551	0025330		0354	15310															
		OBS	0125	2185	36617	2551				15310															
		STD	0150	2009	3667	2603	0020472		0411	15268															
		OBS	0150	2009	36666	2603				15268															
		STD	0200	1860	3659	2635	0017508		0506	15234															
		OBS	0200	1860	36588	2635				15234															
		STD	0250	1829	3658	2643	0016990		0593	15233															
		STD	0300	1800	3657	2649	0016554		0676	15233															
		OBS	0300	1800	36568	2649				15233															
		STD	0400	1747	3649	2656	0016168		0840	15233															
		OBS	0400	1747	36494	2656				15233															
		STD	0500	1700	3642	2662	0015916		1000	15235															
		OBS	0500	1700	36422	2662				15235															
		STD	0600	1548	3611	2673	0015051		1155	15201															
		OBS	0600	1548	36106	2673				15201															
		STD	0700	1342	3576	2691	0013457		1498	15147															
		OBS	0700	1342	35757	2691				15147															
		STD	0800	1074	3539	2714	0011180		1421	15067															
		OBS	0800	1074	35386	2714				15067															
		STD	0900	0839	3513	2733	0009193		1523	14994															
		OBS	0900	0839	35127	2733				14994															
		STD	1000	0578	3493	2754	0006868		1603	14906															
		OBS	1000	0578	34925	2754				14906															
		OBS	1088	0470	34832	2760				14875															
		STD	1100	0493	3491	2763	0005968		1667	14888															
		OBS	1100	0493	34906	2763				14888															
		OBS	1160	0454	34899	2767				14882															
		OBS	1172	0470	34947	2769				14891															
		STD	1200	0452	3493	2769	0005393		1724	14888															
		OBS	1200	0452	34925	2769				14888															
		OBS	1211	0440	34900	2769				14884															
		OBS	1242	0470	34983	2772				14903															
		OBS	1251	0434	34906	2770				14889															
		STD	1300	0413	3500	2779	0004462		1773	14889															
		OBS	1300	0413	34996	2779				14889															
		OBS	1325	0411	34994	2779				14893															
		OBS	1389	0467P	35016	2775P																			
		STD	1400		3500																				
		OBS	1400	0449P	34996	2775P																			
		OBS	1490	0436P	34990	2776P																			

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	STATION NO.	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR.	MG	PER		SEA	TYPE	
31	8007	EV	3750 N	05020 W	114	70	11	13	039	1966		106	5486	14	12	5	3		X6	0	3	0120
		CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-10 <sup>3</sup>	Σ Δ D DYN. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ol/l	TOTAL-P μg - ol/l	NO <sub>2</sub> -N μg - ol/l	NO <sub>3</sub> -N μg - ol/l	SiO <sub>4</sub> -Si μg - ol/l	pH	SIC					
MESSNGR TIME HR 1/10	CAST NO.																					
		STD	0000	2215	3633	2520	0027744	0000	15293													
	039	OBS	0000	2215	36327	2520			15293													
		STD	0010	2214	3633	2520	0027756	0028	15295													
		OBS	0010	2214	36327	2520			15295													
		STD	0020	2214	3633	2520	0027795	0056	15297													
	002	OBS	0020	2214	36327	2520			15297													
		OBS	0025	2208	36327	2522			15296													
		STD	0030	2202	3633	2524	0027525	0083	15295													
		OBS	0030	2202	36325	2524			15295													
		OBS	0040	2128	36253	2539			15277													
		STD	0050	2121	3631	2545	0025584	0136	15277													
		OBS	0050	2121	36307	2545			15277													
		STD	0075	2117	3635	2549	0025249	0400	15281													
		OBS	0075	2117	36352	2549			15281													
		STD	0100	2105	3639	2556	0024726	0462	15282													
		OBS	0100	2105	36394	2556			15282													
		OBS	0108	2096	36416	2560			15281													
		STD	0125	1949	3655	2609	0019728	0318	15246													
		OBS	0125	1949	36547	2609			15246													
		OBS	0131	1877	36565	2629			15227													
		STD	0150	1848	3655	2635	0017337	0364	15222													
		OBS	0150	1848	36547	2635			15222													
		STD	0200	1794	3657	2650	0016080	0448	15215													
		OBS	0200	1794	36566	2650			15215													
		STD	0250	1782	3656	2653	0016010	0528	15219													
		STD	0300	1765	3654	2655	0015937	0608	15222													
		OBS	0300	1765	36538	2655			15222													
		STD	0400	1717	3646	2661	0015738	0766	15224													
		OBS	0400	1717	36456	2661			15224													
		STD	0500	1668	3638	2667	0015461	0922	15225													
		OBS	0500	1668	36382	2667			15225													
		STD	0600	1523	3609	2678	0014600	1073	15193													
		OBS	0600	1523	36092	2678			15193													
		STD	0700	1354	3579	2691	0013466	1413	15151													
		OBS	0700	1354	35790	2691			15151													
		STD	0800	1143	3549	2709	0011726	1339	15093													
		OBS	0800	1143	35488	2709			15093													
		STD	0900	0902	3517	2727	0009942	1447	15018													
		OBS	0900	0902	35168	2727			15018													
		STD	1000	0701	3504	2747	0007842	1536	14956													
		OBS	1000	0701	35037	2747			14956													
		STD	1100	0597	3503	2760	0006499	1608	14932													
		OBS	1100	0597	35030	2760			14932													
		STD	1200	0480	3496	2768	0005544	1668	14900													
		OBS	1200	0480	34955	2768			14900													
		STD	1300	0431	3495	2773	0005034	1721	14896													
		OBS	1300	0431	34950	2773			14896													
		OBS	1370	0444	35014	2777			14914													

TABLE IV.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' 10"	LONGITUDE ° ' 10"	OBS. INSTR.	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLING	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER		SEA	TYPE		AMT
31	8007	EV	3719 N	05020 W		114	70	11	13	077	1966		107	54d6	15	12	8	2		X2	013		0121
						WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. mm	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
						DT	SD	11	540		264	206					172	8	26				
MESSENGR TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-2107	Σ Δ D GYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C						
077	STD		0000	2049	3633	2567	0023342	0000	15250														
	OBS		0000	2049	36333	2567			15250														
	STD		0010	2049	3633	2567	0023380	0023	15252														
002	OBS		0010	2049	36333	2567			15252														
	STD		0020	2049	3633	2567	0023417	0047	15253														
	OBS		0020	2049	36333	2567			15253														
	OBS		0025	2049	36333	2567			15254														
	STD		0030	2050	3633	2566	0023480	0070	15255														
	OBS		0030	2050	36333	2566			15255														
	STD		0050	2050	3633	2566	0023562	0117	15259														
	OBS		0050	2050	36332	2566			15259														
	STD		0075	2051	3633	2566	0023709	0176	15263														
	OBS		0075	2051	36328	2566			15263														
	OBS		0090	2051	36330	2566			15265														
	STD		0100	1970	3657	2605	0020017	0431	15248														
	OBS		0100	1970	36567	2605			15248														
	STD		0125	1892	3659	2627	0018029	0279	15231														
	OBS		0125	1892	36587	2627			15231														
	STD		0150	1840	3657	2639	0016963	0322	15220														
	OBS		0150	1840	36572	2639			15220														
	STD		0200	1789	3655	2650	0016098	0405	15213														
	OBS		0200	1789	36547	2650			15213														
	STD		0250	1770	3653	2653	0015943	0485	15216														
	STD		0300	1749	3650	2656	0015820	0564	15217														
	OBS		0300	1749	36502	2656			15217														
	STD		0400	1701	3643	2662	0015581	0721	15219														
	OBS		0400	1701	36426	2662			15219														
	STD		0500	1610	3625	2670	0015119	0875	15205														
	OBS		0500	1610	36246	2670			15205														
	STD		0600	1485	3603	2682	0014197	1022	15180														
	OBS		0600	1485	36033	2682			15180														
	STD		0700	1404	3595	2693	0013367	1159	15170														
	OBS		0700	1404	35948	2693			15170														
	STD		0800	1296	3575	2700	0012834	1290	15148														
	OBS		0800	1296	35750	2700			15148														
	STD		0900	1040	3534	2717	0011085	1410	15071														
	OBS		0900	1040	35344	2717			15071														
	STD		1000	0826	3514	2736	0009094	1511	15006														
	OBS		1000	0826	35136	2736			15006														
	OBS		1030	0720	35029	2743			14969														
	STD		1100	0633	3504	2756	0006979	1591	14946														
	OBS		1100	0633	35036	2756			14946														
	STD		1200	0489	3492	2764	0005944	1656	14903														
	OBS		1200	0489	34917	2764			14903														
	STD		1300	0459	3494	2770	0005449	1713	14908														
	OBS		1300	0459	34944	2770			14908														
	STD		1400	0453	3500	2775	0005098	1766	14923														
	OBS		1400	0453	34995	2775			14923														
	STD		1500	0447	3502	2777	0004956	1816	14937														
	OBS		1500	0447	35017	2777			14937														

TABLE V. Observed and interpolated oceanographic data taken by USCGC ROCKAWAY on North Atlantic Standard Monitoring Section 6, 19-22 November 1966; prepared from NODC listing No. 31-1061.

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DUST INDEX	MARSON SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
311	061	RC	3201 N	06521 W		115	25	11	19	179	1966	A62	001	4206	41	10	3	4		X1	8	2	0001
WATER						WIND			BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE						DRY BULB	WET BULB													
						12	S05	207	222	183	7	19											
MESSAGE TIME OF HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta$ O DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S COC						
		STD	0000	2340	3658	2504	0029322	0000	15328														
179		OBS	0000	2340	36583	2504			15328														
		STD	0010	2339	3663	2507	0028998	0029	15330														
179		OBS	0011	2339	36635	2508			15330														
		STD	0020	2339	3664	2508	0028974	0058	15331														
		STD	0030	2338	3664	2508	0028985	0087	15333														
179		OBS	0032	2338	36639	2508			15333														
		STD	0050	2333	3663	2509	0028991	0145	15335														
179		OBS	0054	2332	36624	2509			15335														
		STD	0075	2054	3663	2588	0021604	0208	15267														
179		OBS	0081	2000	36631	2602			15254														
		STD	0100	1919	3659	2620	0018582	0259	15234														
179		OBS	0107	1896	36584	2626			15229														
		STD	0125	1868	3657	2632	0017567	0304	15224														
		STD	0150	1839	3655	2638	0017098	0347	15219														
179		OBS	T0162	1828	36549	2641			15218														
		STD	0200	1812	3654	2644	0016683	0432	15220														
187		OBS	0209	1808	36540	2645			15220														
		STD	0250	1789	3652	2648	0016466	0514	15221														
		STD	0300	1766	3648	2651	0016381	0597	15222														
187		OBS	0313	1760	36471	2651			15222														
		STD	0400	1721	3640	2655	0016236	0760	15224														
187		OBS	T0418	1709	36381	2657			15223														
		STD	0500	1621	3621	2665	0015628	0919	15208														
		STD	0600	1504	3600	2675	0014849	1071	15186														
187		OBS	0629	1468	35942	2679			15178														
		STD	0700	1402	3580	2682	0014396	1218	15167														
		STD	0800	1257	3560	2696	0013134	1355	15133														
187		OBS	T0841	1180	35514	2704			15112														
		STD	0900	0996	3537	2727	0010104	1471	15055														
		STD	1000	0733	3516	2752	0007434	1559	14970														
187		OBS	1056	0613	35072	2761			14931														
		STD	1100	0595	3507	2764	0006177	1627	14931														
		STD	1200	0557	3507	2768	0005764	1687	14933														
		STD	1300	0523	3506	2772	0005478	1743	14935														
		STD	1400	0492	3505	2775	0005232	1797	14939														
		STD	1500	0464	3504	2777	0005023	1848	14945														
187		OBS	T1588	0443	35036	2779			14951														
		STD	1750	0417	3501	2780	0004834	1971	14967														
		STD	2000	0381	3498	2781	0004769	2091	14994														
195		OBS	T2049	0375	34979	2782			15000														
		STD	2500	0330	3497	2785	0004495	2323	15057														
195		OBS	T2572	0323	34964	2786			15067														
		STD	3000	0281	3493	2787	0004375	2544	15122														
195		OBS	3067	0275	34927	2787			15131														
195		OBS	T3559	0234	34896	2788			15199														
		STD	4000	0222	3489	2789	0004225	2974	15271														
195		OBS	T4074	0222	34888	2789			15284														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPTH METER	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
311061	RC		3158 N	06619 W		115	16	11	20	003	1966	A62	002	4663	15	10	3	4		X0		0	0002
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE			DRY BULB	WET BULB														
					00	500	208	214	174	7	14												
MESSENGER TIME HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ σ DYN. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH	S C C						
		STD	0000	2278	3646	2513	0028473	0000	15311														
003		OBS	0000	2278	36463	2513			15311														
		STD	0010	2279	3649	2514	0028340	0028	15313														
003		OBS	0012	2279	36498	2515			15314														
		STD	0020	2278	3652	2517	0028149	0057	15315														
		STD	0030	2277	3655	2519	0027948	0085	15317														
003		OBS	0034	2277	36553	2520			15317														
		STD	0050	2277	3657	2521	0027871	0141	15320														
003		OBS	0056	2277	36576	2521			15321														
		STD	0075	2188	3664	2552	0025051	0207	15303														
003		OBS	0084	2139	36651	2566			15291														
		STD	0100	2027	3664	2596	0020933	0264	15264														
003		OBS	0111	1966	36629	2611			15249														
		STD	0125	1931	3661	2619	0018824	0314	15242														
		STD	0150	1880	3659	2630	0017803	0360	15231														
003		OBS	T0166	1855	36577	2636			15227														
		STD	0200	1830	3655	2640	0017057	0447	15225														
003		OBS	0219	1819	36544	2642			15225														
		STD	0250	1811	3654	2644	0016847	0532	15227														
		STD	0300	1794	3652	2647	0016757	0616	15231														
003		OBS	0325	1784	36509	2648			15232														
		STD	0400	1750	3645	2652	0016557	0782	15233														
003		OBS	T0432	1730	36419	2655			15232														
		STD	0500	1691	3632	2657	0016442	0947	15231														
		STD	0600	1586	3613	2667	0015728	1108	15213														
003		OBS	0644	1522	36022	2673			15199														
		STD	0700	1397	3580	2683	0014290	1258	15166														
		STD	0800	1180	3546	2700	0012638	1393	15105														
003		OBS	T0856	1062	35321	2711			15071														
		STD	0900	0958	3525	2724	0010307	1507	15040														
		STD	1000	0754	3511	2745	0008128	1600	14978														
003		OBS	1063	0649	35048	2755			14946														
		STD	1100	0632	3504	2757	0006900	1675	14946														
		STD	1200	0584	3503	2762	0006420	1741	14943														
		STD	1300	0537	3502	2767	0005950	1803	14941														
		STD	1400	0490	3501	2772	0005474	1860	14938														
		STD	1500	0443	3500	2776	0005001	1913	14935														
003		OBS	T1525	0431	35000	2777			14935														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT INDIC	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER	
CTRY CODE	IO. NO.					10°	1°	MO	DAY		HR.1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT
31	061	RC	3158 N	06739 W		115	17	11	20	055	1966	A62 003	4846	47	10	3	4		X1	8	2	0003	
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
COLOR CODE		TRANS. m		DIR.		SPEED OF FORCE		DRY BULB		WET BULB													
						23		504		182		211 174 7											
MESSNGR TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ σ DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH	S CO <sub>2</sub>				
		STD	0000	2276	3643	2510		0028671		0000	15310												
055		OBS	0000	2276	36428	2510					15310												
		STD	0010	2277	3643	2510		0028737		0029	15312												
055		OBS	0010	2277	36430	2510Q																	
		STD	0020	2274	3643	2511		0028702		0057	15313												
		STD	0030	2273	3643	2511		0028714		0086	15314												
055		OBS	0030	2273	36427	2511					15314												
		STD	0050	2274	3643	2511		0028798		0144	15318												
055		OBS	0051	2274	36430	2511					15318												
		STD	0075	2098	3667	2579		0022455		0208	15279												
055		OBS	0077	2087	36683	2583					15277												
		STD	0100	2005	3668	2605		0020084		0461	15259												
055		OBS	0103	1995	36674	2607					15256												
		STD	0125	1925	3663	2622		0018531		0309	15240												
		STD	0150	1867	3659	2634		0017486		0354	15228												
055		OBS	T0153	1862	36582	2634					15227												
		STD	0200	1825	3656	2642		0016864		0440	15224												
055		OBS	0204	1823	36558	2642					15224												
		STD	0250	1828	3658	2643		0016988		0525	15233												
		STD	0300	1833	3660	2643		0017136		0610	15243												
055		OBS	0301	1833	36597	2643					15243												
055		OBS	T0399	1748	36448	2653					15233												
		STD	0400	1748	3645	2653		0016531		0778	15233												
		STD	0500	1690	3629	2654		0016643		0944	15230												
		STD	0600	1581	3613	2668		0015601		1105	15211												
055		OBS	0605	1574	36124	2669					15210												
		STD	0700	1409	3581	2681		0014471		1256	15170												
		STD	0800	1206	3551	2699		0012779		1392	15115												
055		OBS	T0816	1171	35469	2703					15105												
		STD	0900	0965	3525	2723		0010429		1508	15042												
055		OBS	0923	0917	35211	2728					15028												
		STD	1000	0783	3512	2741		0008515		1603	14989												
055		OBS	T1030	0737	35095	2746					14976												
		STD	1100	0684	3509	2753		0007348		1682	14967												
		STD	1200	0615	3508	2762		0006530		1751	14956												
		STD	1300	0556	3507	2768		0005874		1814	14949												
		STD	1400	0505	3506	2774		0005341		1870	14945												
064		OBS	1440	0488	35052	2775					14945												
		STD	1500	0474	3504	2776		0005162		1922	14949												
		STD	1750	0423	3502	2780		0004845		2047	14969												
064		OBS	T1930	0393	35000	2782					14987												
		STD	2000	0385	3499	2782		0004752		2167	14996												
064		OBS	2428	0340																			
		STD	2500	0333	3496	2784		0004610		2401	15059												
064		OBS	T2926	0294	34940	2786					15115												
		STD	3000	0287	3494	2787		0004394		2626	15125												
064		OBS	3430	0254	34928	2789					15186												
064		OBS	3934	0233	34905	2789					15265												
		STD	4000	0231	3491	2789		0004254		3059	15275												
064		OBS	T4695	0224	34933	2792					15396												



TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	DEPT INDEX	MARSOEN SQUARE	STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER		
CTRY CODE	ID. NO.						10"	1"	MO OAT		HR. 1/10	CRUISE NO.			STATION NUMBER	DIR.	HGT	PER		SEA	TYPE		AMT	
31	1061	RC	3200 N	06846 W		115	28	11	20	116	1966	A62	004	4975	15	26	2	2		X1	8	2	0004	
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTH	SPECIAL OBSERVATIONS									
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB												
								26	508	179		211	169	7	14									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANDALTY-210°	Σ Δ D OYN, M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>3</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S	COD						
		STD	0000	2323	3643	2497	0029923	0000	15322															
117		OBS	0000	2323	36434	2497			15322															
		STD	0010	2322	3644	2498	0029877	0030	15323															
117		OBS	0010	2322	36442	2498			15323															
		STD	0020	2322	3644	2498	0029911	0060	15325															
		STD	0030	2321	3644	2498	0029946	0090	15326															
117		OBS	0031	2321	36440	2498			15326															
		STD	0050	2322	3644	2498	0030048	0150	15330															
117		OBS	0053	2322	36438	2498			15330															
		STD	0075	2320	3644	2499	0030078	0225	15334															
117		OBS	0078	2320	36444	2499			15334															
		STD	0100	2122	3669	2574	0023035	0291	15290															
117		OBS	0105	2086	36722	2586			15282															
		STD	0125	2002	3667	2605	0020173	0345	15262															
		STD	0150	1920	3661	2622	0018642	0394	15243															
117		OBS	T0157	1902	36601	2626			15239															
		STD	0200	1841	3656	2638	0017250	0484	15228															
117		OBS	0207	1834	36553	2639			15227															
		STD	0250	1821	3655	2642	0017029	0569	15230															
		STD	0300	1802	3654	2647	0016782	0654	15233															
117		OBS	0308	1799	36542	2647			15234															
		STD	0400	1758	3646	2651	0016674	0821	15236															
117		OBS	T0408	1753	36450	2652			15236															
		STD	0500	1706	3634	2655	0016648	0988	15235															
		STD	0600	1596	3615	2666	0015809	1150	15216															
117		OBS	0612	1578	36120	2668			15212															
		STD	0700	1385	3580	2685	0014038	1299	15162															
		STD	0800	1175	3550	2704	0012251	1431	15104															
117		OBS	T0816	1142	35454	2707			15094															
		STD	0900	0958	3528	2726	0010089	1542	15040															
		STD	1000	0774	3512	2743	0008371	1635	14986															
117		OBS	1022	0739	35089	2745			14975															
		STD	1100	0693	3508	2751	0007584	1714	14970															
		STD	1200	0634	3506	2758	0006957	1787	14964															
		STD	1300	0576	3505	2764	0006335	1854	14957															
		STD	1400	0517	3503	2770	0005729	1914	14949															
		STD	1500	0458	3502	2776	0005125	1968	14942															
117		OBS	T1531	0440	35010	2777			14939															

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE " 1/10	LONGITUDE " 1/10	MARS SQUARE	STATION TIME (GMT)				YEAR	ORIGINATOR'S			DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEA- THER CODE	CLOUD CODES		NOCC STATION NUMBER	
CTRY CODE	ID. NO.					10"	1"	MO	DAY		HR./10	CRUISE NO.	STATION NUMBER			DIR	HGT	PER		SEA	TYPE		AMT
311	061	RC	3158 N	07000 W	116	10	11	20	168	1966	A62	005	5121	47	34	6	3		X2	6	8		0005
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS.		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	(mba)		DRY BULB	WET BULB	CODE													
				02	S20	187		206	172	7		21											
MESSAGE TIME OF HR 1/10	CARD NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta D$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ml/l}$	TOTAL-P $\mu\text{g} - \text{ml/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ml/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ml/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ml/l}$	pH	STC						
		STD	0000	2366	3654	2492	0030388	0000	15333														
168		OBS	0000	2366	36536	2492			15333														
168		OBS	0009	2367	36539	2492			15335														
		STD	0010	2367	3654	2492	0030428	0030	15335														
		STD	0020	2367	3654	2493	0030454	0061	15337														
		STD	0030	2366	3654	2493	0030473	0091	15338														
168		OBS	0030	2366	36541	2493			15338														
		STD	0050	2367	3654	2492	0030589	0152	15342														
168		OBS	0051	2367	36535	2492			15342														
		STD	0075	2363	3653	2493	0030628	0229	15345														
168		OBS	0077	2363	36534	2493			15345														
		STD	0100	2140	3668	2568	0023582	0297	15295														
168		OBS	0103	2117	36694	2575			15289														
		STD	0125	2015	3666	2601	0020575	0352	15265														
		STD	0150	1929	3663	2621	0018721	0401	15246														
168		OBS	T0154	1918	36625	2623			15243														
		STD	0200	1856	3657	2635	0017541	0492	15233														
168		OBS	0206	1849	36559	2636			15231														
		STD	0250	1821	3653	2641	0017159	0578	15230														
		STD	0300	1786	3649	2646	0016783	0663	15228														
168		OBS	0309	1780	36486	2648			15228														
168		OBS	T0399	1712	36378	2656			15221														
		STD	0400	1711	3638	2656	0016176	0828	15221														
		STD	0500	1603	3615	2664	0015684	0987	15202														
		STD	0600	1462	3592	2678	0014548	1138	15171														
168		OBS	0619	1432	35872	2681			15164														
		STD	0700	1268	3563	2696	0012879	1276	15121														
		STD	0800	1073	3538	2714	0011205	1396	15066														
168		OBS	T0826	1023	35323	2718			15052														
		STD	0900	0883	3518	2731	0009534	1500	15011														
168		OBS	0928	0833	35138	2735			14996														
		STD	1000	0707	3507	2748	0007692	1586	14959														
168		OBS	T1029	0663	35053	2753			14946														
		STD	1100	0620	3504	2758	0006759	1658	14941														
		STD	1200	0565	3503	2764	0006171	1723	14935														
		STD	1300	0518	3502	2769	0005701	1782	14933														
		STD	1400	0477	3501	2773	0005316	1837	14933														
177		OBS	T1476	0451	35008	2776			14935														
		STD	1500	0448	3501	2776	0005036	1889	14938														
		STD	1750	0415	3501	2780	0004821	2012	14966														
		STD	2000	0386	3501	2783	0004636	2130	14996														
177		OBS	T2020	0384	35008	2783			14999														
		STD	2500	0337	3497	2785	0004597	2361	15060														
177		OBS	2532	0334	35000	27870																	
		STD	3000	0295	3494	2786	0004515	2589	15128														
177		OBS	T3066	0290	34934	2786			15138														
177		OBS	3602	0250	34920	2789			15214														
		STD	4000	0237	3490	2788	0004403	3035	15278														
177		OBS	4140	0234	34898	2788			15301														
177		OBS	T4681	0230	34906	2789			15396														

TABLE V.—Continued

REFERENCE CITY CODE	IO. NO.	SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH INCH	MARSCHEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
						10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DIR	HGT	PER	SEA		TYPE	AMT	
						COLOR CODE	TRANS. (mi)	DIR.	SPEED OR FORCE	BARO- METER (mba)		DRY BULB	WET BULB			VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS					
311061		RC	3215 N	07030 W		116	20	11	20	214	1966	A62	006	5303	16	01	6	4		X1	8	2	0006
						WATER		WIND		BARO- METER		AIR TEMP. °C											
						COLOR CODE	TRANS. (mi)	DIR.	SPEED OR FORCE	BARO- METER (mba)	DRY BULB	WET BULB	VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
								03	516	195	200	150	7	13									
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$	$\Sigma \Delta \sigma$ OBS. M. X 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} - \text{ol/l}$	TOTAL-P $\mu\text{g} - \text{ol/l}$	NO <sub>2</sub> -N $\mu\text{g} - \text{ol/l}$	NO <sub>3</sub> -N $\mu\text{g} - \text{ol/l}$	SiO <sub>4</sub> -Si $\mu\text{g} - \text{ol/l}$	pH	S C						
		STD	0000	2366	3657	2495	0030165	0000	15334														
		OBS	0000	2366	36567	2495			15334														
		STD	0010	2365	3657	2495	0030158	0030	15335														
214		OBS	0011	2365	36570	2495			15335														
		STD	0020	2366	3657	2495	0030221	0060	15337														
		STD	0030	2367	3657	2495	0030289	0091	15339														
214		OBS	0031	2367	36566	2494			15339														
		STD	0050	2366	3657	2495	0030383	0151	15342														
214		OBS	0052	2366	36565	2495			15342														
		STD	0075	2365	3657	2495	0030422	0227	15346														
		OBS	0079	2365	36578	2496			15347														
		STD	0100	2072	3666	2585	0021946	0293	15277														
214		OBS	0105	2020	36672	2600			15264														
		STD	0125	1956	3662	2613	0019375	0344	15249														
		STD	0150	1895	3658	2626	0018243	0391	15235														
214		OBS	T0158	1880	36570	2629			15232														
		STD	0200	1841	3655	2638	0017293	0480	15228														
214		OBS	0211	1832	36550	2640			15227														
		STD	0250	1818	3654	2642	0017015	0566	15230														
		STD	0300	1794	3651	2646	0016829	0651	15230														
214		OBS	0317	1784	36496	2647			15230														
		STD	0400	1732	3637	2651	0016710	0818	15227														
		STD	0500	1640	3619	2659	0016205	0983	15214														
		STD	0600	1515	3599	2672	0015162	1140	15189														
214		OBS	0636	1462	35911	2677			15177														
		STD	0700	1342	3572	2688	0013725	1284	15147														
		STD	0800	1155	3547	2706	0012085	1413	15096														
214		OBS	T0851	1059	35358	2715			15070														
		STD	0900	0951	3527	2726	0010039	1524	15037														
		STD	1000	0761	3512	2745	0008165	1615	14981														
214		OBS	1058	0669	35054	2752			14953														
		STD	1100	0650	3505	2755	0007120	1691	14953														
		STD	1200	0606	3505	2760	0006647	1760	14952														
		STD	1300	0562	3504	2765	0006176	1824	14951														
		STD	1400	0517	3503	2770	0005704	1884	14950														
		STD	1500	0473	3503	2775	0005234	1938	14948														
214		OBS	T1572	0441	35024	2778			14947														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DEPTH METER	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOQC STATION NUMBER
CITY CODE	ID. NO.					10"	1"	MO	DAY	HR. 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1061	RC	3229 N	07055 W	116	20	11	21	006	1966	A62	007	5139	15	01	6	4		X1	8	2		0007
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB											
								03	S21	210	195	150	7	14									
MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY- $\sigma_t$		$\Sigma \Delta O$ OYN. M. $\times 10^2$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - dl/l$	TOTAL-P $\mu g - dl/l$	NO <sub>2</sub> -N $\mu g - dl/l$	NO <sub>3</sub> -N $\mu g - dl/l$	SiO <sub>4</sub> -Si $\mu g - dl/l$	pH						
		STD	0000	2369	3650	2489	0030746		0000	15334													
	006	OBS	0000	2369	36498	2489				15334													
		STD	0010	2369	3650	2489	0030772		0031	15335													
	006	OBS	0010	2369	36500	2489				15335													
		STD	0020	2369	3650	2489	0030791		0062	15337													
	006	OBS	0029	2368	36501	2489				15338													
		STD	0030	2368	3650	2489	0030824		0092	15338													
	006	OBS	0048	2368	36490	2488				15341													
		STD	0050	2368	3649	2488	0030977		0154	15342													
	006	OBS	0072	2368	36495	2489				15345													
		STD	0075	2338	3654	2501	0029876		0230	15339													
	006	OBS	0095	2163	36764	2568				15301													
		STD	0100	2134	3675	2575	0022918		0296	15294													
		STD	0125	2012	3668	2603	0020355		0350	15265													
	006	OBS	T0143	1945	36642	2618				15249													
		STD	0150	1930	3663	2621	0018746		0399	15246													
	006	OBS	0191	1857	36567	2635				15231													
		STD	0200	1851	3656	2636	0017492		0490	15231													
		STD	0250	1821	3654	2642	0017087		0576	15230													
	006	OBS	0287	1802	36518	2645				15231													
		STD	0300	1799	3651	2645	0016927		0661	15232													
	006	OBS	T0383	1768	36480	2650				15236													
		STD	0400	1762	3647	2651	0016697		0829	15237													
		STD	0500	1697	3634	2657	0016437		0995	15233													
	006	OBS	0578	1611	36189	2665				15218													
		STD	0600	1577	3612	2668	0015598		1155	15210													
		STD	0700	1405	3583	2684	0014242		1304	15169													
	006	OBS	T0775	1260	35617	2697				15130													
		STD	0800	1193	3554	2704	0012309		1437	15110													
		STD	0900	0954	3526	2725	0010164		1550	15038													
	006	OBS	0972	0809	35102	2736				14994													
		STD	1000	0788	3510	2739	0008767		1644	14991													
		STD	1100	0715	3508	2748	0007907		1728	14979													
		STD	1200	0641	3506	2757	0007068		1802	14966													
		STD	1300	0567	3504	2765	0006245		1869	14953													
		STD	1400	0493	3502	2772	0005453		1927	14940													
	006	OBS	T1468	0443	35009	2777				14930													

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	DEPT INSTR	MARS DEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER			DIR	HGH	PER	SEA		TYPE	AMT	
31	1061	RC	3250 N	07130 W		116	21	11	21	040	1966	A62	008	5120	49	01	6	4		X1	8	2	0008
						WATER		WIND		BARO- METER (mbal)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTMS	SPECIAL OBSERVATIONS								
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB											
								03	S14	225	181	126	7	21									
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub> 07		Σ Δ D DYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	ND <sub>2</sub> -N μg - at/l	ND <sub>3</sub> -N μg - at/l	Si O <sub>4</sub> -Si μg - at/l	pH	S C C					
		STD	0000	2310	3638	2497	0029974		0000	15318													
040		OBS	0000	2310	36377	2497				15318													
		STD	0010	2309	3637	2497	0030037		0030	15319													
040		OBS	0010	2309	36370	2497				15319													
		STD	0020	2310	3638	2497	0030057		0060	15321													
040		OBS	0028	2310	36379	2497				15323													
		STD	0030	2310	3638	2497	0030081		0090	15323													
040		OBS	0047	2311	36377	2496				15326													
		STD	0050	2312	3638	2496	0030212		0150	15327													
040		OBS	0070	2316	36387	2496				15331													
		STD	0075	2331	3642	2494	0030545		0426	15336													
040		OBS	0093	2336	36511	2499				15341													
		STD	0100	2265	3654	2522	0027955		0499	15325													
		STD	0125	2061	3662	2585	0022045		0362	15277													
040		OBS	T0140	1977	36642	2609				15257													
		STD	0150	1957	3663	2614	0019419		0414	15253													
040		OBS	0184	1898	36596	2626				15242													
		STD	0200	1880	3659	2630	0017981		0507	15240													
		STD	0250	1836	3656	2639	0017304		0596	15235													
040		OBS	0272	1822	36550	2642				15234													
		STD	0300	1815	3655	2644	0017044		0681	15237													
040		OBS	T0361	1797	36532	2647				15242													
		STD	0400	1780	3653	2651	0016694		0850	15243													
		STD	0500	1737	3646	2656	0016509		1016	15246													
040		OBS	0546	1717	36386	2655				15247													
		STD	0600	1649	3624	2660	0016368		1180	15234													
		STD	0700	1478	3594	2676	0015011		1337	15193													
040		OBS	T0736	1403	35823	2683				15174													
		STD	0800	1246	3560	2698	0012915		1477	15129													
040		OBS	0833	1164	35488	2705				15105													
		STD	0900	0992	3527	2720	0010760		1595	15052													
040		OBS	T0931	0920	35182	2725				15030													
		STD	1000	0841	3515	2735	0009239		1695	15011													
		STD	1100	0737	3512	2748	0007950		1781	14988													
		STD	1200	0645	3508	2758	0006978		1856	14968													
		STD	1300	0567	3505	2765	0006179		1922	14953													
		STD	1400	0502	3502	2771	0005591		1981	14943													
		STD	1500	0449	3500	2775	0005108		2034	14938													
049		OBS	T1527	0437	34991	2776				14937													
		STD	1750	0411	3499	2779	0004897		2159	14964													
		STD	2000	0385	3499	2781	0004760		2280	14996													
049		OBS	T2019	0383																			
		STD	2500	0340	3499	2786	0004526		2512	15062													
049		OBS	2510	0339																			
		STD	3000	0298	3498	2790	0004252		2731	15130													
049		OBS	T3004	0298	34984	2790				15131													
049		OBS	3495	0259	34932	2789				15199													
049		OBS	3988	0241	34915	2789				15278													
		STD	4000	0241	3492	2790	0004329		3160	15280													
049		OBS	T4925	0233	34994	2796				15442													

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DIR. INDIC.	MARSEEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR, 1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT					
311	061	RC	3310 N	07200 W		116	32	11	21	088	1966	A62	009	5028	15	01	5	4		X0		0	0009				
						WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS											
						COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
								36		514		229		172		116		7		14							
MESSNGR TIME NR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>		Σ Δ σ DYN. M., x 10 <sup>3</sup>		SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	3 C C							
		STD	0000	2321	3631	2489		0030762		0000		15320															
088		OBS	0000	2321	36310	2489						15320															
		STD	0010	2322	3631	2488		0030851		0031		15322															
088		OBS	0010	2322	36307	2488						15322															
		STD	0020	2322	3631	2488		0030869		0062		15323															
		STD	0030	2322	3631	2488		0030901		0093		15325															
088		OBS	0030	2322	36311	2488						15325															
		STD	0050	2320	3631	2489		0030935		0154		15328															
088		OBS	0051	2320	36309	2489						15328															
		STD	0075	2310	3631	2492		0030754		0231		15329															
088		OBS	0077	2309	36317	2493						15330															
		STD	0100	2300	3642	2503		0029783		0307		15332															
088		OBS	0101	2298	36425	2504						15332															
		STD	0125	2118	3656	2565		0023963		0374		15292															
		STD	0150	1982	3663	2607		0020048		0429		15260															
088		OBS	0153	1969	36635	2611						15257															
		STD	0200	1874	3658	2631		0017907		0524		15238															
088		OBS	0204	1868	36579	2633						15237															
		STD	0250	1838	3656	2639		0017352		0612		15235															
		STD	0300	1815	3655	2644		0017044		0698		15237															
088		OBS	0305	1813	36547	2644						15237															
		STD	0400	1796	3653	2647		0017075		0869		15248															
088		OBS	T0407	1794	36523	2647						15248															
		STD	0500	1778	3648	2648		0017343		1041		15258															
		STD	0600	1707	3635	2655		0016925		1412		15252															
088		OBS	0612	1695	36331	2656						15250															
		STD	0700	1574	3609	2666		0016053		1377		15225															
		STD	0800	1399	3581	2683		0014538		1530		15183															
088		OBS	T0817	1365	35758	2686						15174															
		STD	0900	1141	3546	2708		0012128		1664		15108															
		STD	1000	0912	3518	2726		0010218		1775		15038															
088		OBS	1019	0874	35137	2729						15027															
		STD	1100	0805	3512	2738		0009074		1872		15014															
		STD	1200	0719	3509	2748		0008062		1957		14997															
		STD	1300	0634	3506	2758		0007087		2033		14980															
		STD	1400	0548	3503	2767		0006148		2099		14962															
		STD	1500	0463	3501	2774		0005245		2156		14944															
088		OBS	T1502	0461	35006	2775						14943															



TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DATE MO DAY	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CTRY CODE	IO. NO.					10"	1"	MO	DAY	HR./1/10		CRUISE NO.	STATION NUMBER			DIR.	HGT	PER	SEA		TYPE	AMT	
31	1061	RC	3331 N	07234 W	116	32	11	21	118	1966	A62	010	4901	16	01	5	4		X1	8	5	0010	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE		NO. OBS. DEPTHS		SPECIAL OBSERVATIONS									
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB	DRY BULB	WET BULB										
					02	S20	245	172	125	7	14												
MESSAGE TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME AND MALT-2107	$\Sigma \Delta \rho$ DYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	SiO <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	SS CC						
		STD	0000	2309	3633	2494	0030257	0000	15317														
118		OBS	0000	2309	36334	2494			15317														
118		OBS	0009	2309	36331	2494			15319														
		STD	0010	2309	3633	2494	0030318	0030	15319														
		STD	0020	2309	3633	2494	0030357	0061	15320														
118		OBS	0027	2309	36331	2494			15322														
		STD	0030	2309	3633	2494	0030390	0091	15322														
118		OBS	0046	2309	36338	2494			15325														
		STD	0050	2309	3634	2494	0030424	0152	15326														
118		OBS	0070	2310	36345	2494			15329														
		STD	0075	2297	3644	2505	0029457	0227	15328														
118		OBS	0093	2236	36693	2542			15318														
		STD	0100	2184	3668	2556	0024753	0294	15306														
		STD	0125	2027	3664	2596	0021026	0552	15268														
118		OBS	T0140	1954	36624	2614			15251														
		STD	0150	1922	3661	2621	0018692	0401	15243														
118		OBS	0191	1824	36579	2644			15222														
		STD	0200	1824	3658	2644	0016695	0490	15224														
		STD	0250	1824	3658	2644	0016870	0574	15232														
118		OBS	0290	1822	36581	2644			15238														
		STD	0300	1822	3658	2644	0016996	0658	15239														
118		OBS	0392	1812	36573	2646			15251														
		STD	0400	1810	3657	2647	0017128	0829	15252														
		STD	0500	1780	3650	2649	0017244	1001	15259														
		STD	0600	1750	3643	2651	0017358	1174	15266														
118		OBS	0602	1749	36429	2651			15266														
		STD	0700	1593	3611	2663	0016338	1342	15231														
		STD	0800	1403	3580	2682	0014696	1497	15184														
118		OBS	T0818	1366	35745	2685			15174														
		STD	0900	1139	3547	2709	0012017	1631	15107														
		STD	1000	0904	3521	2730	0009863	1740	15036														
118		OBS	1039	0825	35121	2735			15011														
		STD	1100	0783	3511	2740	0008771	1834	15006														
		STD	1200	0715	3509	2749	0007986	1917	14996														
		STD	1300	0647	3507	2757	0007225	1993	14985														
		STD	1400	0579	3505	2764	0006480	2062	14975														
		STD	1500	0511	3503	2771	0005748	2123	14964														
118		OBS	T1595	0446	35012	2777			14953														

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	DRIFT IN/10	MARSDEN SQUARE		STATION TIME IGMT				YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'AMPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER
CRUISE CODE	ID. NO.					10"	1"	MO	DAY	HR./10	CRUISE NO.		STATION NUMBER	DIR			HGT	PER	SEA	TYPE		AMT		
311061	RC	3347 N	07300 W	116	33	11	21	147	1966	A62	011	4572	43	04	5	3			X1	8	3		0011	

WATER	WIND	WIND	SPEED	BARD-	AIR TEMP. °C		VIS.	NO.	SPECIAL
					DRY	WET			
CODE	TRANS.	DIR.	OR FORCE	METER	BULE	BULB	CODE	DEPTHS	OBSERVATIONS
		04	S17	253	171	133	7	20	

MESSAGE	CARD	CARD	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME	Σ Δ D	SOUND	O <sub>2</sub> ml/l	PO <sub>4</sub> -P	TOTAL-P	NO <sub>2</sub> -H	NO <sub>3</sub> -H	SiO <sub>4</sub> -Si	pH	Σ
TIME	NO.	TYPE					ANOMALY-310°	DTM, M.	VELOCITY		μg - at/l	μg - at/l	μg - at/l	μg - at/l	μg - at/l		C
HR 1/10								X 10 <sup>3</sup>									
		STD	0000	2296	3635	2499	0029783	0000	15314								
147		OBS	0000	2296	36350	2499			15314								
		STD	0010	2296	3635	2499	0029822	0030	15316								
147		OBS	0011	2296	36349	2499			15316								
		STD	0020	2296	3635	2499	0029858	0060	15317								
		STD	0030	2295	3635	2499	0029891	0090	15319								
147		OBS	0033	2295	36348	2499			15319								
		STD	0050	2295	3635	2499	0029952	0149	15322								
147		OBS	0055	2295	36355	2499			15323								
		STD	0075	2294	3638	2501	0029822	0224	15326								
147		OBS	0082	2293	36384	2502			15327								
		STD	0100	2096	3657	2572	0023220	0490	15282								
147		OBS	0109	2021	36637	2597			15264								
		STD	0125	1979	3663	2608	0019866	0344	15255								
		STD	0150	1924	3663	2622	0018633	0392	15244								
147		OBS	T0163	1900	36621	2628			15239								
		STD	0200	1854	3658	2636	0017420	0482	15232								
147		OBS	0218	1836	36560	2639			15230								
		STD	0250	1826	3656	2642	0017063	0569	15232								
		STD	0300	1809	3655	2645	0016900	0654	15235								
147		OBS	0328	1800	36537	2647			15237								
		STD	0400	1780	3650	2649	0016909	0823	15243								
147		OBS	T0442	1759	36459	2651			15243								
		STD	0500	1723	3638	2653	0016758	0991	15241								
		STD	0600	1625	3620	2663	0016107	1155	15226								
147		OBS	0660	1545	36063	2671			15209								
		STD	0700	1463	3592	2678	0014830	1310	15188								
		STD	0800	1264	3560	2695	0013274	1451	15135								
147		OBS	T0893	1083	35371	2711			15085								
		STD	0900	1070	3536	2713	0011519	1574	15082								
147		OBS	0999	0883	35191	2731			15028								
		STD	1000	0881	3519	2732	0009617	1080	15027								
		STD	1100	0691	3506	2750	0007675	1767	14969								
147		OBS	T1112	0671	35047	2752			14963								
		STD	1200	0617	3505	2759	0006801	1839	14956								
		STD	1300	0562	3505	2766	0006129	1904	14951								
		STD	1400	0515	3505	2772	0005577	1962	14949								
		STD	1500	0474	3505	2776	0005111	2016	14949								
155		OBS	T1575	0448	35047	2779			14951								
		STD	1750	0424	3503	2781	0004786	2139	14970								
		STD	2000	0393	3501	2782	0004721	2258	14999								
155		OBS	T2122	0379	35008	2784			15014								
		STD	2500	0345	3501	2787	0004462	2488	15064								
155		OBS	2674	0330	35003	2788			15088								
		STD	3000	0303	3498	2789	0004352	2708	15132								
155		OBS	3221	0286	34966	2789			15163								
155		OBS	3766	0245	34916	2789			15240								
		STD	4000	0235	3490	2788	0004370	3144	15277								
155		OBS	T4324	0230	34898	2789			15332								

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE 1/10	LONGITUDE 1/10	DATE MO DAY	MARSDEN SQUARE		STATION TIME (GMT)		YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF SAMPLES	WAVE OBSERVATIONS			WEATHER CODE	CLOUD CODES		NODC STATION NUMBER	
CTRY CODE	IO. NO.					10"	1"	MO	DAY		HR	1/10			CRUISE NO.	STATION NUMBER	DIR.		HGT	PER		SEA
311	061	RC	3406 N	07330 W	11	21	116	43	11	21	199	1966	A62 012	4224	15	05	5	3		X1	8 6	0012
						WATER		WIND		BARO-METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS							
						COLOR CODE	TRANS. (m)	DIR.	SPEED OF FORCE		DRY BULB	WET BULB										
								05	516	246		182	134	7	14							
MESSNGR TIME OF HR 1/10	CASST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY- $\sigma_{\theta}$		$\Sigma \Delta \sigma$ DYN. M. $\times 10^3$	SOUND VELOCITY		O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu\text{g} \cdot \text{at/l}$	TOTAL-P $\mu\text{g} \cdot \text{at/l}$	NO <sub>2</sub> -N $\mu\text{g} \cdot \text{at/l}$	NO <sub>3</sub> -N $\mu\text{g} \cdot \text{at/l}$	Si O <sub>4</sub> -Si $\mu\text{g} \cdot \text{at/l}$	pH	S CC		
		STD	0000	2260	3639	2512		0028493		0000	15306											
199		OBS	0000	2260	36392	2512					15306											
		STD	0010	2255	3638	2513		0028454		0028	15306											
199		OBS	0010	2255	36384	2513					15306											
		STD	0020	2253	3639	2514		0028417		0057	15307											
199		OBS	0029	2252	36389	2514					15308											
		STD	0030	2252	3639	2514		0028417		0085	15309											
199		OBS	0048	2254	36389	2514					15312											
		STD	0050	2254	3639	2514		0028542		0142	15312											
199		OBS	0073	2252	36390	2514					15316											
		STD	0075	2232	3642	2522		0027823		0213	15311											
199		OBS	0096	2058	36640	2587					15272											
		STD	0100	2044	3664	2591		0021369		0274	15269											
		STD	0125	1966	3662	2610		0019625		0325	15252											
199		OBS	T0148	1912	36601	2623					15240											
		STD	0150	1909	3660	2624		0018443		0373	15240											
199		OBS	0193	1855	36579	2636					15231											
		STD	0200	1855	3658	2636		0017423		0463	15232											
		STD	0250	1850	3661	2639		0017296		0550	15239											
199		OBS	0288	1839	36627	2644					15243											
		STD	0300	1833	3661	2644		0017045		0635	15243											
199		OBS	T0386	1786	36518	2649					15242											
		STD	0400	1778	3650	2649		0016844		0805	15242											
		STD	0500	1722	3639	2655		0016655		0972	15241											
199		OBS	0582	1676	36300	2659					15239											
		STD	0600	1645	3624	2661		0016276		1137	15232											
		STD	0700	1462	3592	2678		0014808		1292	15188											
199		OBS	T0779	1305	35684	2693					15147											
		STD	0800	1250	3562	2699		0012850		1431	15131											
		STD	0900	1013	3533	2721		0010699		1548	15061											
199		OBS	0987	0839	35138	2734					15008											
		STD	1000	0829	3513	2735		0009156		1648	15007											
		STD	1100	0752	3510	2745		0008313		1735	14993											
		STD	1200	0674	3507	2753		0007487		1814	14979											
		STD	1300	0597	3504	2761		0006696		1885	14965											
		STD	1400	0519	3501	2768		0005924		1948	14950											
		STD	1500	0442	3498	2774		0005187		2004	14935											
199		OBS	T1509	0435	34973	2775					14933											

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° ' /10	LONGITUDE ° ' /10	OBS. INDEX	MARSDEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S				DEPTH TO BOTTOM	MAX. DEPTH OF S'MPL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NOOC STATION NUMBER
CTRY CODE	IO. NO.					10°	1°	MO	DAY	HR./10		CRUISE NO.	STATION NUMBER	DIR.	HGT			PER	SEA	TYPE	AMT				
31	061	RC	3423 N	07400 W		116	44	11	21	228	1966	A62	013	3658	16	06	5	3		X1	8	7		0013	
		WATER		WIND		BARO- METER		AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS													
		COLOR CODE	TRANS. (m)	DIR.	SPEED OR FORCE	DRY BULB	WET BULB	DRY BULB	WET BULB																
				10	S13	247	178	134	7	13															
MESSAGE TIME HR 1/10	CST NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T	SPECIFIC VOLUME ANOMALY-σ <sub>t</sub>	Σ Δ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - at/l	TOTAL-P μg - at/l	NO <sub>2</sub> -N μg - at/l	NO <sub>3</sub> -N μg - at/l	SiO <sub>4</sub> -Si μg - at/l	pH	S C/C								
		STD	0000	2252	3641	2516	0028138	0000	15304																
228		OBS	0000	2252	36411	2516			15304																
		STD	0010	2251	3639	2515	0028273	0028	15305																
228		OBS	0010	2251	36394	2515			15305																
		STD	0020	2252	3640	2515	0028283	0056	15307																
		STD	0030	2252	3640	2515	0028335	0085	15309																
228		OBS	0031	2252	36405	2516			15309																
		STD	0050	2252	3640	2515	0028406	0142	15312																
228		OBS	0052	2252	36401	2515			15312																
		STD	0075	2252	3640	2515	0028511	0213	15316																
228		OBS	0079	2252	36400	2515			15317																
		STD	0100	2098	3661	2574	0022984	0277	15283																
228		OBS	0105	2068	36643	2585			15276																
		STD	0125	1991	3661	2603	0020327	0331	15258																
		STD	0150	1916	3659	2621	0018688	0380	15241																
228		OBS	T0157	1900	36581	2625			15238																
		STD	0200	1850	3656	2636	0017468	0470	15231																
228		OBS	0211	1840	36557	2638			15230																
		STD	0250	1830	3655	2640	0017231	0557	15233																
		STD	0300	1812	3653	2643	0017116	0643	15236																
228		OBS	0318	1804	36523	2645			15236																
		STD	0400	1782	3647	2646	0017173	0814	15243																
		STD	0500	1710	3635	2654	0016669	0984	15237																
		STD	0600	1588	3616	2668	0015556	1145	15214																
228		OBS	0644	1519	36049	2676			15198																
		STD	0700	1388	3582	2686	0013957	1292	15163																
		STD	0800	1165	3547	2704	0012276	1423	15100																
228		OBS	T0864	1030	35305	2716			15061																
		STD	0900	0949	3525	2725	0010150	1536	15036																
		STD	1000	0750	3511	2745	0008065	1627	14976																
228		OBS	1075	0628	35029	2756			14940																
		STD	1100	0617	3503	2757	0006794	1701	14940																
		STD	1200	0575	3503	2763	0006296	1766	14939																
		STD	1300	0532	3503	2769	0005798	1827	14939																
		STD	1400	0490	3504	2774	0005300	1882	14938																
		STD	1500	0447	3504	2779	0004803	1933	14938																
228		OBS	T1594	0407	35040	2783			14937																

TABLE V.—Continued

MESSNGR TIME HR 1/10	CAST NO.	CARD TYPE	DEPTH (m)	T °C	S %	SIGMA-T	SPECIFIC VOLUME AND DENSITY	$\Sigma \Delta O$ OYN. M. $\times 10^3$	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P $\mu g - at/l$	TOTAL-P $\mu g - at/l$	NO <sub>2</sub> -N $\mu g - at/l$	NO <sub>3</sub> -N $\mu g - at/l$	SiO <sub>4</sub> -Si $\mu g - at/l$	pH	S C
		STD	0000	2282	3639	2506	0029117	0000	15311								
017		OBS	0000	2282	36389	2506			15311								
		STD	0010	2282	3639	2506	0029138	0029	15313								
		STD	0020	2281	3639	2506	0029163	0058	15314								
017		OBS	0022	2281	36391	2506			15314								
		STD	0030	2281	3639	2506	0029171	0087	15316								
017		OBS	0044	2280	36399	2507			15318								
		STD	0050	2280	3641	2508	0029111	0146	15319								
017		OBS	0071	2278	36439	2511			15322								
		STD	0075	2238	3653	2529	0027193	0216	15314								
017		OBS	0098	2039	36675	2595			15268								
		STD	0100	2034	3665	2595	0021040	0276	15266								
017		OBS	0103	18210	36623	26480											
		STD	0125	1970	3661	2609	0019798	0327	15253								
		STD	0150	1916	3659	2621	0018688	0376	15241								
		STD	0200	1834	3656	2640	0017081	0465	15226								
017		OBS	T0209	1823	36554	2642			15224								
		STD	0250	1811	3655	2645	0016774	0550	15228								
		STD	0300	1791	3653	2648	0016613	0633	15230								
017		OBS	0320	1782	36514	2649			15230								
		STD	0400	1741	3644	2654	0016416	0798	15231								
017		OBS	0432	1714	36395	2657			15227								
		STD	0500	1612	3619	2665	0015569	0958	15205								
		STD	0600	1444	3590	2681	0014278	1107	15166								
017		OBS	T0658	1338	35736	2690			15138								
		STD	0700	1239	3558	2698	0012668	1242	15110								
		STD	0800	1021	3527	2715	0011064	1361	15046								
017		OBS	0886	0853	35097	2729			14996								
		STD	0900	0813	3509	2734	0009041	1461	14984								
		STD	1000	0593	3505	2762	0006161	1537	14914								
		STD	1100	0495	3502	2772	0005157	1594	14890								
017		OBS	T1114	0491													
025		OBS	1120	0490	35016	2772			14891								
		STD	1200	0471	3500	2773	0005094	1645	14897								
		STD	1300	0449	3499	2775	0004979	1696	14904								
		STD	1400	0430	3498	2776	0004898	1745	14913								
		STD	1500	0413	3497	2777	0004840	1794	14923								
025		OBS	T1681	0389	34963	2779			14943								
		STD	1750	0386	3496	2779	0004750	1913	14953								
		STD	2000	0373	3497	2781	0004765	2032	14990								
025		OBS	T2152	0363	34966	2782			15012								
		STD	2500	0340	3495	2783	0004785	2271	15062								
025		OBS	2732	0315	34949	2785			15091								
		STD	3000	0276	3495	2789	0004185	2495	15121								
025		OBS	T3081	0262	34945	2790			15129								

TABLE V.—Continued

REFERENCE		SHIP CODE	LATITUDE ° 1/10	LONGITUDE ° 1/10	GMR INDIC	MARSOEN SQUARE		STATION TIME (GMT)			YEAR	ORIGINATOR'S		DEPTH TO BOTTOM	MAX. DEPTH OF S'PL'S	WAVE OBSERVATIONS				WEA- THER CODE	CLOUD CODES		NODC STATION NUMBER				
CTRY CODE	ID. NO.					10"	1"	MO	DAY	HR.1/10		CRUISE NO.	STATION NUMBER			DR.	HGT	PER	SEA		TYPE	AMT					
31	061	RC	3444 N	07505 W		116	45	11	22	072	1966	A62 015	2377	11	07	6	4		X6	8	8	0015					
						WATER		WIND		BARO- METER (mb)	AIR TEMP. °C		VIS. CODE	NO. OBS. DEPTHS	SPECIAL OBSERVATIONS												
						COLOR CODE	TRANS. (mi)	DIR.	SPEED OR FORCE		DRY BULB	WET BULB															
								04	520	261	166	137	7	13													
MESSNGR TIME HR 1/10	CAS NO.	CARD TYPE	DEPTH (m)	T °C	S ‰	SIGMA-T		SPECIFIC VOLUME ANOMALY-10 <sup>3</sup>		Σ Δ σ OYN. M. x 10 <sup>3</sup>	SOUND VELOCITY	O <sub>2</sub> ml/l	PO <sub>4</sub> -P μg - ml/l	TOTAL-P μg - ml/l	NO <sub>3</sub> -N μg - ml/l	NO <sub>3</sub> -N μg - ml/l	Si O <sub>4</sub> -Si μg - ml/l	pH	S C								
		STD	0000	2535	3622	2418		0037511		0000	15370																
072		OBS	0000	2535	36221	2418					15370																
		STD	0010	2537	3623	2418		0037540		0038	15372																
072		OBS	0011	2537	36234	2418					15373																
		STD	0020	2537	3622	2417		0037647		0075	15374																
		STD	0030	2536	3622	2417		0037673		0113	15375																
072		OBS	0033	2536	36214	2417					15376																
		STD	0050	2534	3621	2417		0037749		0188	15378																
072		OBS	0055	2533	36210	2417					15379																
		STD	0075	2533	3621	2418		0037831		0283	15382																
072		OBS	0083	2533	36212	2418					15383																
		STD	0100	2483	3643	2449		0034898		0374	15377																
072		OBS	0110	2438	36520	2470					15369																
		STD	0125	2283	3651	2515		0028764		0453	15333																
		STD	0150	2075	3650	2572		0023367		0518	15284																
072		OBS	T0165	1982	36494	2597					15261																
		STD	0200	1888	3649	2621		0018900		0624	15241																
072		OBS	0222	1839	36485	2633					15230																
		STD	0250	1796	3648	2643		0016922		0714	15222																
		STD	0300	1735	3646	2657		0015796		0795	15213																
072		OBS	0336	1703	3649P	2667P																					
		STD	0400	1686	3632	2658		0016007		0954	15213																
072		OBS	0451	1673	36204	2652					15216																
		STD	0500	1607	3600	2652		0016830		1119	15201																
		STD	0600	1376	3561	2673		0014951		1277	15140																
072		OBS	0680	0668Q	35335	2775Q																					
		STD	0700	1013	3527	2716		0010707		1406	15027																
		STD	0800	0520	3497	2765		0005505		1487	14650																
072		OBS	T0810	0463	34943	2769					14628																
072		OBS	1141Q	0435	34952	2773																					









532-AA

